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1962-1963

UNIVERSITY OF ARIZONA
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POMONA
COLLEGE
BULLETIN

ANNUAL CATALOG NUMBER

POMONA COLLEGE BULLETIN

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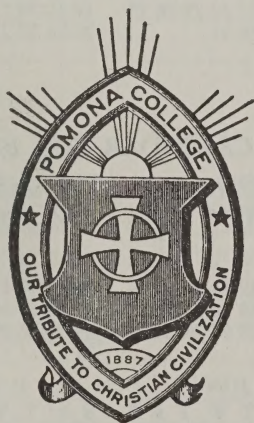
VOL. LX

JULY, 1962

No. 1

Annual Catalog

1962-1963



Pomona College

CLAREMONT, CALIFORNIA

CALENDAR FOR 1962

JANUARY							FEBRUARY							MARCH							APRIL							
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CALENDAR FOR 1963

JANUARY							FEBRUARY							MARCH							APRIL						
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COLLEGE CALENDAR FOR 1962-1963

First Semester

SEPTEMBER 21, FRIDAY	Faculty Meeting, 4:15 p.m. Residence halls open to new students only. First meal served, dinner at 6 p.m.
SEPTEMBER 21-24	Program for new students.
SEPTEMBER 24, MONDAY	Conference day and registration for new students.
SEPTEMBER 25 AND 26, TUESDAY AND WEDNESDAY	Residence halls open for returning students. Only those returning students who have been officially requested to arrive in Claremont earlier may be admitted to campus residence before this date. First meal served to returning students: breakfast, Tuesday. Registration for returning students.
SEPTEMBER 27, THURSDAY	First semester classes begin, 8 a.m. Opening Convocation, 11 a.m.
OCTOBER 11, THURSDAY	Last day for entering classes. Last day for withdrawal from Military Science 1a-b.
OCTOBER 16, TUESDAY	Founders Day: Seventy-fifth Anniversary Convocation, Flame Ceremony, 10:30 a.m.
OCTOBER 27, SATURDAY	Parents Day.
NOVEMBER 1, THURSDAY	Final day for withdrawal from classes without penalty.
NOVEMBER 17, SATURDAY	Low grade reports due.
NOVEMBER 21, WEDNESDAY	Thanksgiving recess begins, 9:30 p.m.
NOVEMBER 26, MONDAY	Thanksgiving recess ends, 8 a.m.
DECEMBER 19, WEDNESDAY	Christmas vacation begins, 9:30 p.m.
JANUARY 3, THURSDAY	Christmas vacation ends, 8 a.m.
JANUARY 24, THURSDAY	Last day of classes.
JANUARY 28, MONDAY	Final examinations begin.
FEBRUARY 6, WEDNESDAY	Final examinations end.
FEBRUARY 9, SATURDAY	First semester ends.

COLLEGE CALENDAR FOR 1962-1963

Second Semester

FEBRUARY 11, MONDAY	Second semester classes begin, 8 a.m. Registration for all students.
FEBRUARY 12, TUESDAY	Opening Convocation, second semester, 11 a.m. Continue registration for all students.
FEBRUARY 27, WEDNESDAY	Last day for entering classes.
MARCH 16, SATURDAY	Matriculation and Freshman Class Day.
MARCH 18, MONDAY	Final day for withdrawal from classes without penalty.
APRIL 1, MONDAY	Low grade reports due.
APRIL 6, SATURDAY	Spring vacation begins, noon
APRIL 15, MONDAY	Spring vacation ends, 8 a.m.
MAY 24 AND 25, FRIDAY AND SATURDAY	Hour examinations for Seniors only (optional with instructors). No classes for Seniors after May 25.
MAY 28, TUESDAY	Last day of classes.
MAY 30, THURSDAY	Comprehensive examinations.
MAY 31, FRIDAY	Final examinations begin.
JUNE 1, SATURDAY	Comprehensive examinations.
JUNE 2, SUNDAY	Memorial Convocation.
JUNE 8, SATURDAY	Final examinations end.
JUNE 8, SATURDAY	Alumni Day.
JUNE 9, SUNDAY	Baccalaureate Service (morning).
JUNE 9, SUNDAY	Commencement (afternoon).

* * * * *

SEPTEMBER 20-23

Program for new students.

BOARD OF TRUSTEES

OFFICERS

Paul Fussell, *President*
Fred W. Smith, *Vice-President*
Leonard A. Shelton, *Vice-President*
Rudolph J. Wig, *Vice-President*

TERM OF OFFICE EXPIRES JUNE, 1963

Samuel R. Raymond, <i>Los Angeles</i>	Mrs. Victor Montgomery, <i>Beverly Hills</i>
Cyril Chappellet, <i>Los Angeles</i>	Morris B. Pendleton, <i>San Marino</i>
James M. Gerstley, <i>Beverly Hills</i>	S. Rodman Irvine, <i>Beverly Hills</i>

TERM OF OFFICE EXPIRES JUNE, 1964

Fred W. Smith, <i>Ojai</i>	Roy E. Thomas, <i>Los Angeles</i>
Robert B. Coons, <i>Los Angeles</i>	Paul Fussell, <i>Pasadena</i>
John W. Dodds, <i>Palo Alto</i>	Ranney C. Draper, <i>Monrovia</i>

TERM OF OFFICE EXPIRES JUNE, 1965

Terrell C. Drinkwater, <i>Los Angeles</i>	Leonard A. Shelton, <i>Claremont</i>
Mrs. Valley M. Knudsen, <i>Glendale</i>	Herbert S. Rempel, <i>Pasadena</i>
Frank R. Seaver, <i>Los Angeles</i>	

TERM OF OFFICE EXPIRES JUNE, 1966

W. P. Fuller Brawner, <i>Hillsborough</i>	Yale B. Griffith, <i>Palo Alto</i>
E. Wilson Lyon, <i>Claremont</i>	Karl B. Rodi, <i>Beverly Hills</i>

TERM OF OFFICE EXPIRES JUNE, 1967

Lawrence T. Cooper, <i>Altadena</i>	Robert V. Edwards, <i>San Marino</i>
Rollin Eckis, <i>Bradbury</i>	Robert R. Sprague, <i>Los Angeles</i>
Rudolph J. Wig, <i>Pasadena</i>	

HONORARY MEMBERS

Paul S. Armstrong, <i>Los Angeles</i>	William B. Himrod, <i>Los Angeles</i>
Frederick S. Bale, <i>Pasadena</i>	Ernest E. Jones, <i>Claremont</i>
George W. Bryant, <i>San Marino</i>	George R. Martin, <i>Los Angeles</i>
William W. Clary, <i>Pasadena</i>	Arthur J. McFadden, <i>Santa Ana</i>
Charles Detoy, <i>Pasadena</i>	Seeley G. Mudd, <i>San Marino</i>
Charles E. Donnelly, <i>Los Angeles</i>	Mary McLean Olney, <i>Berkeley</i>
George L. Eastman, <i>Hollywood</i>	George S. Sumner, <i>Claremont</i>
May Clark Eversole, <i>Santa Barbara</i>	Carl I. Wheat, <i>Menlo Park</i>

EX-OFFICIO MEMBERS

President of Claremont University College
President of the Alumni Association
President of the Women's Campus Club
President of the Pomona College Associates

FORMER PRESIDENTS OF THE COLLEGE

Cyrus G. Baldwin, 1890 - 1897	Franklin L. Ferguson, 1897 - 1901
George A. Gates, 1901 - 1910	James A. Blaisdell, 1910 - 1928
Charles K. Edmunds, 1928 - 1941	

GENERAL ADMINISTRATION

1962-63

ELIJAH WILSON LYON, <i>President</i> B.A., University of Mississippi; B.A., M.A., B.Litt., University of Oxford; Ph.D., University of Chicago; LL.D., Colgate University; D.Litt., Occidental College; L.H.D., Trinity College; LL.D., University of California.	<i>Sumner Hall</i>
RICHARD T. NIMMONS, <i>Vice-President for Administration and Development</i> B.A., Pomona College.	<i>Sumner Hall</i>
PAUL H. BURTON, <i>Controller</i> B.A., Western Reserve University.	<i>Pendleton Bldg.</i>
WILLIAM V. SHANNON, <i>Treasurer</i> B.S., Virginia Military Institute.	<i>Pendleton Bldg.</i>
ORLANDO R. DAVIDSON, <i>Director of Development</i> B.A., Reed College.	<i>Sumner Hall</i>
WILLIAM B. HIMROD, <i>Assistant to the President</i> B.A., Pomona College; Graduate Student, University of Southern California.	<i>Sumner Hall</i>
WILLIAM B. DUNSETH, <i>Assistant Vice-President for Development</i> B.A., Park College; M.B.A., University of Minnesota.	<i>Sumner Hall</i>
DOUGLAS F. SCOTT, <i>Assistant Vice-President for Development, 1962</i> Student at University of Washington.	<i>Sumner Hall</i>
CHARLES M. CRAWFORD, JR., <i>Assistant Treasurer</i>	<i>Pendleton Bldg.</i>
JOHN M. HARTKE, <i>Assistant Treasurer</i>	<i>Pendleton Bldg.</i>
FRANK H. TAYLOR, <i>Assistant Controller</i> B.S., University of Southern California.	<i>Pendleton Bldg.</i>
JOHN M. VAIL, <i>Bursar</i> B.S., Oregon State University.	<i>Pendleton Bldg.</i>
MORTON C. JOHNSON, <i>Director of Alumni Relations</i> B.A., Pomona College.	<i>Sumner Hall</i>
JOSEPH R. HENRY, <i>Assistant Director of Alumni Relations</i> B.A., Pomona College.	<i>Sumner Hall</i>
GEORGE F. SWEENEY, <i>Director of the News Bureau</i> Student at University of Minnesota.	<i>Sumner Hall</i>
AGNES M. JOHNSON, <i>Executive Secretary to the President</i> M.A., Pomona College.	<i>Sumner Hall</i>
LUCILLE GRAMSE MCCARTHY, <i>Director of Dining Halls</i> B.S., M.S., Kansas State College of Applied Sciences.	<i>Frary Hall</i>
ETHEL MOORE, <i>Director of Residence Halls</i>	<i>Mudd Hall</i>
GEORGE W. CONN, <i>Campus Engineer</i> B.S., Bradley University.	<i>303 E. First St.</i>

EMERITI

Date denotes beginning of original term of service.

ADMINISTRATION AND FACULTY

- ALLEN F. HAWLEY 132 W. Eighth St.
Vice-President Emeritus, 1938.
B.A., Pomona College; Graduate Student, Harvard University; LL.D., Pomona College.
- ERNEST E. JONES 905 College Ave.
Treasurer Emeritus, 1909.
B.A., Pomona College.
- VIRGINIA PRINCEHOUSE ALLEN 175 E. Twelfth St.
Emeritus Associate Professor of Dramatics, 1930.
B.A., Pomona College; Graduate Study, Department of Drama, Yale University; M.A., Claremont Graduate School.
- WALTER ALFRED ALLEN 175 E. Twelfth St.
Emeritus Professor of Musical Theory and Appreciation, 1912.
B.A., Beloit College; B.Mus., Yale University; Associate, American Guild of Organists.
- GRACE ELLA BERRY 353 W. Eleventh St.
Emeritus Dean of Women and Associate Professor of Mathematics, 1909.
B.S., M.A., Mount Holyoke College.
- JAMES WHITE CROWELL 450 University Circle
Emeritus Professor of Romance Languages, 1929.
B.S., M.A., Haverford College; Ph.D., Cornell University.
- HAROLD DAVIS 612 W. Tenth St.
Emeritus Professor of English, 1927.
B.A., Stanford University; B.A., and B.Litt., University of Oxford.
- ROBERT SIDNEY ELLIS 629 Marylind Ave.
Emeritus Professor of Psychology, 1931.
B.A., University of Arkansas; Ph.D., Clark University.
- BERNARD CAPEN EWER 120 E. Eleventh St.
Emeritus Professor of Psychology, 1916.
B.A., M.A., Brown University; Ph.D., Harvard University.
- CHARLES TABOR FITTS 451 Westway Rd.
Emeritus Professor of Education, 1919.
B.A., Amherst College; M.A., University of California; Graduate Study, Harvard University.
- COLVIN HEATH 750 Indian Hill Blvd.
Emeritus Associate Professor of Physical Education for Men, 1922.
B.A., Pomona College; M.A., Stanford University.

- HUBERT HERRING 765 Indian Hill Blvd.
Emeritus Professor of Latin American Civilization, 1945.
 B.A., Oberlin College; M.A., Columbia University; Graduate, Union Theological Seminary; LL.D., Claremont University College.
- WILLIAM ATWOOD HILTON 1293 Dartmouth Ave.
Emeritus Professor of Zoology, 1905.
 B.S., Ph.D., Cornell University.
- FRANCIS RAYMOND IREDELL Box 33, A.P.O. 143, San Francisco
Emeritus Dean of the Faculty, and Professor of Philosophy, 1925.
 B.A., Pomona College; M.A., Ph.D., Harvard University.
- CHESTER GEORGE JAEGER 4456 Oak Lane
Emeritus Professor of Mathematics, 1931.
 B.A., B.S., M.A., Ph.D., University of Missouri.
- ELLIOTT CURTIS LINCOLN 472 W. Tenth St.
Emeritus Professor of English, 1924.
 B.A., Colby College; M.A., State College of Washington and Harvard University.
- EARL JAY MERRITT 641 Harvard Ave.
Emeritus Professor of Physical Education for Men, 1925.
 B.A., Pomona College; M.A., Claremont Graduate School.
- EUGENE WHITE NIXON 1351 Tulane Rd.
Emeritus Professor of Physical Education for Men, 1916.
 B.A., Monmouth College; M.A., Columbia University; Graduate Study, Illinois and California Universities.
- ROBERT LOBINGIER STREHLE 1019 Dartmouth Ave.
Emeritus Professor of Physical Education for Men, 1923.
 B.A., Pomona College; M.A., Claremont Graduate School; Graduate study, University of Southern California, University of California, Stanford University.
- GEORGE STEDMAN SUMNER Mt. San Antonio Gardens
Emeritus Professor of Economics and Sociology, 1897.
Controller, 1922-1941.
 B.A., Pomona College; B.A., Ph.D., Yale University.
- EMILIE ELIZABETH WAGNER 783 W. Tenth St.
Emeritus Associate Professor of German, 1928.
 B.A., Smith College; M.A., Pennsylvania State College; Doctorate de l'Université mention Lettres, Toulouse.
- WALTER TICKNOR WHITNEY 710 W. Ninth St.
Emeritus Professor of Astronomy, 1929.
 B.S., M.S., Pomona College; Ph.D., University of Chicago.
- ALFRED OSWALD WOODFORD 760 W. Ninth St.
Emeritus Professor of Geology, 1915.
 B.A., Pomona College; Ph.D., University of California.

THE FACULTY

Date denotes beginning of original term of service.

ADMINISTRATIVE OFFICERS

- ELIJAH WILSON LYON 345 N. College Ave.
President, 1941.
B.A., University of Mississippi; B.A., M.A., B.Litt., University of Oxford; Ph.D., University of Chicago; LL.D., Colgate University; Litt. D., Occidental College; L.H.D., Trinity College; LL.D., University of California.
- ERNEST ALBERT STRATHMANN 160 W. Eleventh St.
Dean of the Faculty, 1959; Professor of English, 1932.
B.A., M.A., Ph.D., Johns Hopkins University.
- J. EDWARD SANDERS 310 Radcliffe Drive
Dean of Students, 1942.
B.A., Hendrix College; M.A., Ph.D., Columbia University.
- SHELTON L. BEATTY 156 E. Seventh St.
Dean of Men, 1949.
B.A., University of Tennessee; M.A., Cornell University; Ph.D., Stanford University.
- JEAN B. WALTON^s
Dean of Women on the Martha N. Hathaway Foundation, 1949.
B.A., Swarthmore College; M.A., Brown University; Ph.D., University of Pennsylvania.
- ELVA F. BROWN
Acting Dean of Women, 1962.
B.A., M.A., University of California.
- WILLIAM L. WHEATON 328 Oakdale Dr.
Director of Admissions, 1949.
B.A., Pomona College; M.A., New York University.
- HERBERT B. SMITH 777 W. Ninth St.
Director of Financial Aid and Assistant Director of Admissions, 1952.
B.A., M.A., University of Iowa; Ph.D., University of California, Berkeley.
- JOHN H. LETARTE
Assistant to the Director of Admissions, 1959.
B.A., University of Rochester; M.A., Columbia University.
- MASAGO ARMSTRONG 4003 N. Garey Ave., La Verne
Registrar, 1955.
B.A., M.A., Stanford University.
- DAVID W. DAVIES 524 W. Tenth St.
Librarian, 1947.
B.A., University of California at Los Angeles; M.A., University of California; Ph.D., University of Chicago.
- MYRON G. CHAPMAN 537 W. Eighth St.
Physician of The Claremont Colleges, 1961.
Ph.B., B.S., M.D., University of Chicago.
- ROBERT W. EDWARDS
Associate Physician of The Claremont Colleges, 1962.
B.A., Dartmouth College; M.D., University of Kansas.

EDGAR C. RECKARD, JR. 645 N. College Ave.
Chaplain of The Claremont Colleges, 1958.
 B.A., Yale University; B.D., Yale Divinity School; graduate study, University of Edinburgh.

INA T. NIDER Harwood Court
Social Director, Women's Campus, 1948.
 B.A., Fresno State College; M.A., Columbia University.

THOMAS BRIGANTE
Director of The Claremont Colleges Counseling Center, 1962.
 B.A., University of Buffalo; M.S., Harvard University; M.A., Ph.D., Boston University.

ALAN C. BATCHELDER Clark Hall
Social Director, Men's Campus, 1962.
 B.A., Simpson College; M.A. candidate, Claremont Graduate School.

PROFESSORS

YOST U. AMREIN 456 Harrison Ave.
Professor of Zoology on the Willard George Halstead Foundation, 1951.
 B.A., M.A., Ph.D., University of California at Los Angeles.

CARL BAUMANN 567 W. Eighth St.
Professor of German, 1931.
 Ph.D., University of Basel.

GRAHAM B. BELL 1482 Wells St.
Professor of Psychology, 1956.
 B.A., Wesleyan University; M.A., Ph.D., Northwestern University.

LYMAN BENSON 1430 Via Zurita
Professor of Botany on the Henry Kirke White Bent Foundation, 1944.
 B.A., M.A., Ph.D., Stanford University.

FREDERICK BRACHER 230 W. Seventh St.
Professor of English on the Arthur M. and Fanny M. Dole Foundation, 1944.
 B.S., Oregon State University; M.A., Ph.D., University of California.

HARRY JOSEPH CARROLL, JR.³
Professor of Classics on the Edwin Clarence Norton Foundation, 1948.
 B.A., University of Akron; M.A., Ph.D., Harvard University.

CH'EN SHOU-YI¹ 769 W. Ninth St.
Professor of Chinese Culture, 1941.
 B.A., Lingnan University; Ph.D., University of Chicago; Fellow of the Academia Sinica.

LORNE D. COOK 995 W. Harrison Ave.
Professor of Economics, 1954.
 B.A., M.A., Ph.D., University of Michigan.

KENNETH G. FISKE 585 W. Twelfth St.
Professor of Music, 1936.
 B.Mus., M.Mus., American Conservatory of Music; Pupil of Leon Sametini, Jacques Gordon, Otakar Sevcik.

CHARLES A. FOWLER, JR. 366 Blaisdell Dr.
Professor of Physics on the Seeley W. Mudd Foundation, 1947.
 B.A., M.S., University of Utah; Ph.D., University of California.

- EDWARD MONTGOMERY FRYER³ 440 W. Eleventh St.
Professor of Physics, 1946.
 B.A., Pomona College; Engineer (Mech.), Ph.D., Stanford University.
- JOHN HOWES GLEASON 512 Baughman Ave.
Professor of History on the Warren Finney Day Memorial Foundation, 1939.
 B.A., Ph.D., Harvard University; B.Litt., University of Oxford.
- HUGH J. HAMILTON 468 Grinnell Dr.
Professor of Mathematics, 1936.
 B.A., University of California at Los Angeles; M.A., Ph.D., Brown University.
- CORWIN HERMAN HANSCH 4070 Olive Knoll Place
Professor of Chemistry, 1946.
 B.S., University of Illinois; Ph.D., New York University.
- BURTON HENKE 121 Brown Drive
Professor of Physics, 1948.
 B.A., Miami University; M.A., Ph.D., California Institute of Technology.
- CHARLES SHIVELEY HOLMES³
Professor of English, 1941.
 B.A., Oberlin College; Ph.D., Princeton University.
- SEARS R. JAYNE³ 1154 Baughman Ave.
Professor of English, 1960.
 B.A., M.A., University of Missouri; Ph.D., Yale University.
- RICHARD I. JONES 621 Hendrix Ave.
Professor of Military Science and Tactics, 1960.
 B.S., University of Washington; Command and General Staff School; The Armored School Associate Advanced Course; Colonel, Infantry, U.S. Army.
- WILLIAM THOMAS JONES² 4201 Via Padova
Professor of Philosophy on the Robert C. Denison Foundation, 1938.
 B.A., Swarthmore College; B.Litt., University of Oxford; Ph.D., Princeton University.
- JOHN HASKELL KEMBLE 452 W. Sixth St.
Professor of History, 1936.
 B.A., Stanford University; M.A., Ph.D., University of California.
- ROBERT F. LEGGEWIE 4412 Rhodelia Ave.
Professor of Romance Languages, 1951.
 B.S., Loyola University; M.A., University of Southern California; A.M., Ph.D., Harvard University.
- BATES LOWRY 105 N. College Ave.
Professor of Art, 1959.
 Ph.B., M.A., Ph.D., University of Chicago.
- LEE CAMERON McDONALD 695 S. Bucknell
Professor of Government, 1952.
 B.A., Pomona College; M.A., University of California at Los Angeles; Ph.D., Harvard University.
- DONALD B. MCINTYRE 625 W. Twelfth St.
Professor of Geology, 1954.
 B.Sc., Ph.D., D.Sc., University of Edinburgh.
- HENRY CORD MEYER 470 Harrison Ave.
Professor of History, 1946.
 B.A., University of Colorado; M.A., University of Iowa; Ph.D., Yale University.
- FREDERICK LUDWIG MULHAUSER, JR. 424 W. Eleventh St.
Professor of English on the Phebe Estelle Spalding Foundation, 1941.
 B.A., College of Wooster; M.A., Ph.D., Yale University.

- EDWIN ALLEN PHILLIPS 1201 N. College Ave.
Professor of Botany, 1948.
 B.A., Colgate University; M.A., Ph.D., University of Michigan.
- GERHARD N. ROSTVOLD 1075 Yale Ave.
Professor of Economics on the Stedman-Summer Foundation, 1952.
 B.A., M.A., Ph.D., Stanford University.
- PAUL MCRAB ROUTLY³
Professor of Astronomy on the Frank P. Brackett Foundation, and Director of the Observatory, 1954.
 B.Sc., M.Sc., McGill University; M.A., Ph.D., Princeton University.
- WILLIAM F. RUSSELL 382 Blaisdell Dr.
Professor of Music on the David J. Baldwin Foundation, 1951.
 B.A., Columbia University; M.A., Harvard University.
- DWIGHT LEONARD RYERSON 107 E. San Jose
Professor of Zoology, 1946.
 B.A., M.S., University of Arizona; Ph.D., University of California at Los Angeles.
- ALVIN HEWITT SCAFF 330 Radcliffe Dr.
Professor of Sociology on the Henry Snyder Foundation, 1947.
 B.A., University of Texas; B.D., Chicago Theological Seminary; M.A., Ph.D., University of Texas.
- R. NELSON SMITH 115 Brown Dr.
Professor of Chemistry on the Carnegie Foundation, 1945.
 B.A., Pomona College; M.A., Ph.D., Stanford University.
- FREDERICK SONTAG 1120 Indian Hill Blvd.
Professor of Philosophy, 1952.
 B.A., Stanford University; M.A., Ph.D., Yale University.
- ERNEST ALBERT STRATHMANN 160 W. Eleventh St.
Professor of English, 1932; Dean of the Faculty, 1959.
 B.A., M.A., Ph.D., Johns Hopkins University.
- ELMER B. TOLSTED 337 W. Fifth St.
Professor of Mathematics, 1947.
 B.S., M.S., University of Chicago; Ph.D., Brown University.
- JOHN ALBERT VIEG 910 Oxford Ave.
Professor of Government, 1945.
 B.A., St. Olaf College; M.A., University of Iowa; Ph.D., University of Chicago.
- EDWARD WEISMILLER 510 W. Tenth St.
Professor of English, 1949.
 B.A., D.Litt., Cornell College; M.A., Harvard University; D. Phil., University of Oxford.

ASSOCIATE PROFESSORS

- C. FREEMAN ALLEN 394 E. Blaisdell Dr.
Associate Professor of Chemistry, 1954.
 B.S., University of California; Ph.D., University of Wisconsin.
- MORTON O. BECKNER 630 Harvard Ave.
Associate Professor of Philosophy, 1957.
 B.A., University of California at Santa Barbara; M.A., Ph.D., Columbia University.
- WILLIAM G. BLANCHARD 1495 Via Zurita
Associate Professor of Music and College Organist, 1936.
 B.Mus., DePauw University; M.Mus., University of Michigan; Further Study with Carl Weinrich and Hugh Porter in Organ and with Seth Bingham in Composition.

- MARGERY SMITH BRIGGS 4549 Live Oak Dr.
Associate Professor of Music, 1943.
 B.Mus., B.Mus.Ed., M.Mus., Chicago Musical College.
- ELIZABETH CAWTHORNE 512 Northwestern Dr.
Associate Professor of Physical Education for Women, 1935.
 B.A., M.A., University of California.
- KENNETH L. COOKE 654 Northwestern Dr.
Associate Professor of Mathematics on the Joseph N. Fiske Foundation, 1957.
 B.A., Pomona College; M.A., Ph.D., Stanford University.
- MARGARET GAY DAVIES 395 S. Bonnie Ave., Pasadena
Associate Professor of History, 1952.
 B.A., M.A., Ph.D., Radcliffe College.
- WILLIAM L. FAUST 1100 Harvard Ave.
Associate Professor of Psychology, 1953.
 B.A., M.A., Ph.D., Stanford University.
- RAY FRAZER 1102 N. College Ave.
Associate Professor of English, 1952.
 B.A., Pomona College; M.A., Ph.D., University of California.
- SALVATORE GRIPPI
Associate Professor of Art, 1962.
 Studied at Art Students' League; Atelier 17, New York City; Instituto d'Arte, Florence, Italy.
- GRETCHEN GRAF JORDAN 354 Blaisdell Dr.
Associate Professor of English, 1947.
 B.A., M.A., Ohio State University; Ph.D., University of California at Los Angeles.
- KARL GEORGE KOHN
Associate Professor of Music, 1950.
 B.A., M.A., Harvard University.
- VINCENT H. LEARNIHAN 220 W. Tenth St.
Associate Professor of History, 1949.
 B.A., M.A., Ph.D., University of California at Los Angeles.
- CHARLES M. LESLIE³ 122 E. Seventh St.
Associate Professor of Sociology and Anthropology, 1956.
 B.A., M.A., Ph.D., University of Chicago.
- RICHARD N. LOUCKS 176 W. Oak Park Dr.
Associate Professor of Music, 1948.
 B.A., Pomona College; M.A., Ph.D., Eastman School of Music of the University of Rochester.
- EDWARD W. MALAN 433 Sycamore Ave.
Associate Professor of Physical Education for Men and Director of Athletics, 1950.
 B.A., Pomona College; M.A., Claremont Graduate School; Ed.D., University of California at Los Angeles.
- HOWARD H. MARTIN³ 1030 Moab Dr.
Associate Professor of Speech, 1956.
 B.S., M.A., Ph.D., Northwestern University.
- JACK C. MILLER 725 Miramar Ave.
Associate Professor of Physics, 1952.
 B.A., Pomona College; M.A., University of California; D.Phil., University of Oxford.

- WALTER T. OGIER 717 West Eighth St.
Associate Professor of Physics, 1960.
 B.S., Ph.D., California Institute of Technology.
- BURDETTE C. POLAND 1404 Niagara Ave.
Associate Professor of History, 1958.
 B.A., Swarthmore College; M.A., Ph.D., Princeton University.
- HOWARD THOMAS YOUNG 256 E. Second St.
Associate Professor of Romance Languages, 1954.
 B.S., M.A., and Ph.D., Columbia University.

ASSISTANT PROFESSORS

- IRVING J. ADEN, JR. 452 Silverdale, Pomona
Assistant Professor of Military Science and Tactics, 1960.
 B.S., University of Florida; U.S. Army Transportation School; Army Artillery School; Major, Transportation Corps, U.S. Army.
- MAURICE ALLARD
Assistant Professor of Music, 1962.
 B.Mus., Indiana University; M.A., New York University; doctoral candidate, University of Southern California.
- WALTER E. AMBORD 419 Cedarcrest
Assistant Professor of Physical Education for Men, 1960.
 B.A., M.A., Los Angeles State College.
- WILLIAM D. ANDRUS 330 W. Fifth St.
Assistant Professor of Zoology, 1960.
 B.A., Oberlin College; Ph.D., Stanford University.
- ALEXANDER K. BAIRD 139 Villanova Dr.
Assistant Professor of Geology, 1958.
 B.A., Pomona College; M.A., Claremont Graduate School; Ph.D., University of California.
- RICHARD G. BARNES 6300 Wheeler, La Verne
Assistant Professor of English, 1961.
 B.A., Pomona College; Ph.D., Claremont Graduate School.
- ALVIN L. BEILBY 144 Brown Dr.
Assistant Professor of Chemistry, 1958.
 B.A., San Jose State College; Ph.D., University of Washington.
- HANS-DIETER BRUECKNER
Assistant Professor of German, 1962.
 B.A., M.A., Ph.D., University of California.
- MAURICE E. COPE 690 Indian Hill
Assistant Professor of Art, 1961.
 M.A. and doctoral candidate, University of Chicago; Student at University of Florence, Italy.
- ROBERT L. FERM 320 Harvard Ave.
Assistant Professor of Religion on the John Knox McLean Foundation, 1958.
 B.A., College of Wooster; B.D., Yale Divinity School; M.A., Ph.D., Yale University.
- HOUSTON I. FLOURNOY 755 W. Tenth St.
Assistant Professor of Government, 1957.
 B.A., Cornell University; M.A., Ph.D., Princeton University.

- ROBERT J. FOGELIN 642 N. College Ave.
Assistant Professor of Philosophy, 1958.
 B.A., University of Rochester; M.A., Ph.D., Yale University.
- ROBERT D. HERMAN 357 W. Tenth St.
Assistant Professor of Sociology, 1960.
 B.A., Pomona College; M.A., Ph.D., University of Wisconsin.
- RICHARD E. MACMILLEN 634 N. College Ave.
Assistant Professor of Zoology, 1960.
 B.A., Pomona College; M.Sc., University of Michigan; Ph.D., University of California at Los Angeles.
- JOHN MASON 2101 Glendale Blvd., Los Angeles
Assistant Professor of Art, 1962.
 Studied at Los Angeles County Art Institute; Chouinard Art Institute.
- KENNETH T. OKAZAKI 4542 LaDeney, Montclair
Assistant Professor of Military Science and Tactics, 1961.
 B.A., University of Hawaii; Captain, Infantry, U.S. Army.
- JOHN T. PENNISTON
Visiting Assistant Professor of Chemistry, 1963.
 B.A., M.A., Ph.D., Harvard University.
- THOMAS C. PINNEY
Assistant Professor of English, 1962.
 B.A., Beloit College; Ph.D., Yale University.
- LEONARD C. PRONKO 156 E. Green St.
Assistant Professor of Romance Languages, 1957.
 B.A., Drury College; M.A., Washington University; Ph.D., Tulane University.
- JOHN E. QUINLAN 119 N. College Ave.
Assistant Professor of Chemistry, 1958.
 B.S., Marquette University; M.S., University of Arkansas; Ph.D., University of Wisconsin.
- GEORGE H. SAGE 1060 N. College Ave.
Assistant Professor of Physical Education for Men, 1959.
 B.A., M.A., Colorado State College; doctoral candidate, University of California at Los Angeles.
- THOMAS F. SHERMAN
Visiting Assistant Professor of Zoology, 1962.
 B.A., Oberlin College; D.Phil., University of Oxford.
- HENNING SIVERTS
Visiting Assistant Professor of Sociology and Anthropology, 1962.
 "Magister" degree, doctoral candidate, University of Oslo, Norway.
- HELEN M. SMITH 120 W. Bonita
Assistant Professor of Music, Music Librarian, 1949.
 B.A., Pomona College; graduate study, Claremont College, Columbia University; doctoral candidate, Indiana University.
- STEPHEN G. TELLMAN 1143 Yale Ave.
Assistant Professor of Mathematics, 1961.
 B.A., Reed College; Ph.D., University of Washington.

LAURENCE G. THOMPSON

Visiting Assistant Professor of Oriental Affairs, 1962.

B.A., University of California at Los Angeles; M.A., Ph.D., Claremont Graduate School.

VLADIMIR G. ULITIN

307 E. Palm, Altadena

Assistant Professor of Russian, 1960.

Student at Robert College, Istanbul, and at the University of Belgrade.

FRANKLIN V. WALKER

239 W. Eleventh St.

Assistant Professor of Economics, 1959.

B.A., University of California; M.A., Ph.D., Harvard University.

MARTIN L. WINE

727 N. College Ave.

Assistant Professor of English, 1960.

B.A., Northwestern University; M.A., Ph.D., Harvard University.

PAUL B. YALE

338 Harvard Ave.

Assistant Professor of Mathematics, 1961.

B.A., University of California, Berkeley; M.A., Ph.D., Harvard University.

INSTRUCTORS

MICHAEL H. ARMACOST

Instructor in Government, 1962.

B.A., Carleton College; M.A., doctoral candidate, Columbia University.

ANNE H. BAGES

330 Stanford Dr.

Instructor in Physical Education for Women, 1959.

B.S., University of Illinois; M.S. candidate, University of California at Los Angeles.

CHRISTOPHER F. CARROLL

Instructor in English, 1962.

B.A., doctoral candidate, Yale University.

GORDON K. DOUGLASS⁸

1103 Yale Ave.

Instructor in Economics, 1959.

B.A., Pomona College; doctoral candidate, Massachusetts Institute of Technology.

DOUGLAS A. GREENLEE

1103 Yale Ave.

Instructor in Philosophy, 1962.

B.A., Occidental College; M.A., doctoral candidate, Columbia University.

NORMAN P. HINES

Instructor in Physical Education for Men, 1962.

B.A., Pomona College; M.F.A. candidate, Claremont Graduate School.

JEANNETTE HYPES

2072 Peyton Rd., La Verne

Instructor in Physical Education for Women, 1957.

B.A., Bowling Green State University.

DIAN I. LINDBERG

252 W. Sixth St.

Instructor in German, 1960.

B.A., M.A., doctoral candidate, University of California at Los Angeles.

STEFAN MAX

Instructor in Romance Languages, 1962.

B.A., Sir George Williams University, M.A., McGill University, Montreal, Canada; doctoral candidate, University of California at Los Angeles.

HANS C. PALMER*Instructor in Economics, 1962.*

B.A., M.A., doctoral candidate, University of California.

JEAN N. PARLIER

137 N. College Ave.

Instructor in Romance Languages, 1961.

Licence es-Lettres, Licence en Droit, University of Paris.

WILLIAM M. REESKE

1009 Oakdale St., West Covina

Instructor in Physical Education for Men, 1961.

B.A., M.A. candidate, Los Angeles State College.

JOSEPH V. RICAPITO*Instructor in Romance Languages, 1962.*

B.A., Brooklyn College; M.A., State University of Iowa; doctoral candidate, University of California at Los Angeles.

MIKE RISKAS

220 N. Marengo Ave., Alhambra

Instructor in Physical Education for Men, 1961.

B.S., M.A. candidate, University of California at Los Angeles.

WANDA GAE ROBERSON

1231 E. Pasadena

Instructor in German, 1961.

B.A., University of Oregon; M.A., University of Washington.

JAMES E. SUTTON

202 W. San Jose

Instructor in Economics, 1961.

B.S., University of Wisconsin; doctoral candidate, University of Michigan.

LOIS A. TIDGWELL

430 Elder Drive

Instructor in Physical Education for Women, 1962.

B.A., Pomona College; M.S., Indiana University.

ROBERT T. VOELKEL*Instructor in Religion on the Nancy M. Lyon Foundation, 1962.*

B.A., College of Wooster; B.D., Th.D., Union Theological Seminary.

DONALD H. ZENGER*Instructor in Geology, 1962.*

B.S., Union College; M.A., Dartmouth College; Ph.D., Cornell University.

PART-TIME FACULTY

DONALD W. BRAY

621 S. Geneva Ave.

Latin American History

B.A., Pomona College; M.A., University of California at Berkeley; Ph.D., Stanford University.

CALVIN J. FREDERICK

1283 Cornelia, Pomona

Psychology

B.A., University of Oklahoma; M.A., Ph.D., University of California at Los Angeles.

LEWIS L. GRIMM

226 W. Bonnie Brae Court, Ontario

Engineering Drawing

B.S., California Institute of Technology; M.A., Claremont Graduate School.

JOSETTE L. MAXWELL*Speech*

B.S., Kansas State University.

- JANET M. MYHRE 406 Oakdale Drive
Mathematics
 B.A., Pacific Lutheran College; M.A., University of Washington.
- LEONARD I. SCHNEIDER 133 W. Ninth St.
Psychology
 B.A., M.A., University of Iowa; Ph.D., University of Colorado.
- BARBARA J. TELLMAN 1143 Yale Avenue
Classics
 B.A., University of Washington.

MUSIC

- KALMAN BLOCH 3914 Franklin Ave., Los Angeles
Clarinet
 First Clarinetist, Los Angeles Philharmonic Orchestra.
- THELMA NEFT GELLER 822 Miramar
Oboe
 Graduate, Curtis Institute of Music; formerly Oboist with the Pittsburgh Symphony Orchestra.
- PAUL GREGORY 1922 S. Citrus Ave., Los Angeles
String Bass
 Member of Fox and Warner Brothers studio orchestras. Formerly of Los Angeles Philharmonic Orchestra.
- MARGOT JEAN 272 S. Almont, Beverly Hills
Violoncello
 Pupil of Jacob at the Royal Conservatoire in Brussels.
- VICTOR MASSIE 4311 Beeman Ave., Studio City
Bassoon
 Graduate, San Diego Conservatory of Music; Bassoonist, San Diego Symphony Orchestra.
- RALPH W. PIERCE 531 E. Granada Ct., Ontario
Piano
 Student of Ethel Leginska.
- RALPH S. PYLE 1450 Casa Grande, Pasadena
French Horn
 B.A., M.A., New York University; French Horn, Los Angeles Philharmonic Orchestra.
- HARLEY A. REIFSNYDER 1247 N. College Ave.
Piano
 B.A., Pomona College; M.M., University of Portland; Prix de Virtuosité, Conservatoire de Lausanne.
- DOROTHY REMSEN 6331 Quebec Dr., Hollywood
Harp
 Harpist, Los Angeles Philharmonic Orchestra.
- ROGER STEVENS 1677 E. Mountain St., Pasadena
Flute
 Flutist, Los Angeles Philharmonic Orchestra.
- GEORGE H. TYLER 140 E. Twelfth St.
Brass Instruments
 Formerly first trumpet with Los Angeles Philharmonic Orchestra.

MEMBERS OF THE CLAREMONT GRADUATE SCHOOL FACULTY OFFERING COURSES AT POMONA COLLEGE

DOUGLASS G. ADAIR

Professor of American History.

B.A., University of the South; M.A., Harvard University; Ph.D., Yale University.

GEORGE S. BLAIR

Associate Professor of Government.

B.A., B.S., M.S., Kansas State Teachers College; Ph.D., Northwestern University.

CHARLES S. CAMPBELL, JR.

Associate Professor of History.

B.A., M.A., Ph.D., Yale University.

SHERWIN CARLQUIST

Associate Professor of Botany.

B.A., Ph.D., University of California.

FRENCH R. FOGLE

Professor of English Literature.

Ph.D., Columbia University.

RALPH HALLMAN

Instructor in Education.

B.A., M.A., Rice University.

JOHN A. HUTCHISON

Danforth Professor of Religion and Philosophy.

B.D., Union Theological Seminary; Ph.D., Columbia University.

ROBERT A. KEITH

Assistant Professor of Psychology.

B.A., M.A., Ph.D., University of California at Los Angeles.

RUTH M. LARSON

Instructor in Education.

B.S., Parsons College; M.S., University of Tennessee.

FRED WARNER NEAL

Associate Professor of International Relations.

B.A., M.A., Ph.D., University of Michigan.

WILLIAM J. NIVEN, JR.

Associate Professor of History.

B.A., University of Connecticut; M.A., Ph.D., Columbia University.

JASON L. SAUNDERS

Visiting Associate Professor of Philosophy.

B.A., Tufts; M.A., Ph.D., Columbia University.

PAUL E. SULTAN

Professor of Economics.

B.A., University of British Columbia; M.A., Ph.D., Cornell University.

FROM HARVEY MUDD COLLEGE

GRAYDON D. BELL

Associate Professor of Physics.

B.S., University of Kentucky; M.S., Ph.D., California Institute of Technology.

¹Absent on leave, first semester, 1962-63.

²Absent on leave, second semester, 1962-63.

³Absent on leave, 1962-63.

FACULTY COMMITTEES 1962-63

First person named is the Committee Chairman

Administration—President, Dean of the Faculty, Amrein, Beckner, Hansch, Malan, Rostvold, Sanders.

Admissions—Wheaton, Beckner, Quinlan, Russell, Sanders, Herbert Smith, and two students.

Athletics:

Faculty Committee—Rostvold, Fogelin, MacMillen, Malan, Phillips.

Advisory Council to the Director—Malan, Baird, Beatty, three student and two alumni representatives.

Representatives on the Southern California Intercollegiate Athletic Conference—Malan, Phillips, Rostvold.

Classification—Strathmann, Allen, Armstrong, Briggs, Learnihan, Leggewie, Walker.

College Radio Station—McDonald, Blanchard, Davidson, Sanders, Yale, and student representatives.

Courses of Study—Strathmann, Gleason, Henke, McDonald, Mulhauser, Phillips, Nelson Smith, Young.

Financial Aid for Students—Herbert Smith, Ambord, Beatty, Brown, Cooke, Fogelin, Loucks, Sanders.

Honors—Kemble, MacMillen, Scaff, Sontag, Wine.

International Relations—Meyer, Armacost, Ch'en, Cook, Lindberg, Scaff, Vieg.

Library—Mulhauser, Benson, Mr. Davies, Hamilton, Leggewie, Lowry, McIntyre, Poland, Weismiller.

Medical Science—Ryerson, Amrein, Beilby, Chapman, Frazer, Hansch, Tolsted.

Pre-Law—Gleason, Bracher, Cook, Flournoy.

Public Events—Vieg, Bracher, Cook, Hansch, Kemble, Lowry, Russell, Strathmann, and two students.

Religious Activities—Ferm, Beatty, Bell, Herman, Loucks, Sontag, Tellman, Voelkel, and three students.

Student Advising—Beatty, Armstrong, Brown, Cawthorne, Faust, Jordan, Ogier, Sage, Sanders, Wine, and four students.

Student Affairs—Sanders, Andrus, Beatty, Brown, Mrs. Davies, Herman, Poland, Sage.

Study Abroad—Sanders, Meyer, Pronko, Weismiller, Wheaton.

THE COLLEGE

POMONA COLLEGE is an independent, coeducational institution of arts and sciences. Originally established to serve its immediate region, the college now enjoys support from every section of the United States and from many foreign countries. Enrollment is restricted to a maximum of eleven hundred students.

The College was incorporated on October 14, 1887, by a group of early settlers who wanted to see in Southern California a "Christian College of the New England type." Under the leadership of the Reverend Charles B. Sumner, a devoted and self-sacrificing group were appointed members of the first Board of Trustees by the General Association of Congregational Churches of Southern California. The original trustees were: Henry K. W. Bent, Nathan W. Blanchard, Anson Brunson, Elwood Cooper, James T. Ford, James H. Harwood, Dexter D. Hill, Theodore C. Hunt, George W. Marston, John K. McLean, Henry A. Palmer, Seth Richards, Charles B. Sheldon, Charles B. Sumner, and Andrew J. Wells.

Instruction was begun in September, 1888, in a small rented house in the city of Pomona. The following January an unfinished hotel (now Sumner Hall) in nearby Claremont, together with considerable land adjacent, was given to the College and the work was transferred there. Although this location was originally regarded as temporary, Claremont became the permanent home of the College. However, the name of "Pomona College" had become so definitely fixed to the institution that it was retained.

The College met a need for higher education in Southern California, and after the initial years its growth was constant. The first class was graduated in 1894. The preparatory department, essential in the beginning, was discontinued in 1910.

With the freedom characteristic of Congregational organization, Pomona was soon entrusted with its own government and in 1903 was freed from any organic association with the church of its origin. Today the Board of Trustees is a self-perpetuating body, free from ecclesiastical control, but pledged under its charter to maintain the institution as truly Christian, though nonsectarian.

Pomona is a liberal arts college, which affords a full academic program in the social sciences, the natural sciences, and the humanities. The curriculum is planned to give a comprehensive understanding of man and the universe in which he lives, rather than technical training in

highly specialized fields. The College believes that the best preparation for life is liberal education, and it aspires to educate men and women for leadership in the professions, in business, and in civic affairs.

The College has been developed as a community in which faculty and students meet easily and frequently and students live, eat, and work together on the campus. To this end, the College maintains a large faculty in relation to its student body (approximately one faculty member for every ten students) and provides one of the finest groups of residences and dining halls in the country. The residential organization of undergraduate life at Pomona is one of the most important features of the total educational program.

The College owes the development of the campus and the growth of its financial resources to the generosity of patrons, friends, and alumni. As an independent institution, without assistance from any governmental or church body, Pomona must rely upon gifts for the expansion of its program and for the increase of its endowment, upon which depends the financial stability of the college. The book value of Pomona's total assets in April, 1962, was \$35,000,000, but the income from only \$11,000,000 is available for the current operations of the College.

Because of these benefactions and current gifts by alumni, parents, friends, and business corporations, the charge for tuition and fees covers only about sixty per cent of the actual cost of a Pomona education. The College welcomes the assistance of parents who feel able to pay the full cost of their children's education, or a larger proportion than is covered by present charges. The Parents Fund, which from time to time invites contributions, provides a channel for such assistance, as does the Alumni Fund, for parents who themselves attended Pomona College.

THE CLAREMONT COLLEGES

Pomona College is the original institution of The Claremont Colleges, a group of five associated colleges, of which the other members are Claremont University College, Scripps College, Claremont Men's College, and Harvey Mudd College. Each college serves its own distinctive purposes, determines its own policies and requirements, possesses legal autonomy, and has its independent board of trustees and faculty. However, the five institutions cooperate in their academic programs and in the use of certain common facilities. The undergraduates colleges open their classes without tuition charges to students in the other undergraduate institutions. Selected courses in the Claremont Graduate School are open to seniors in the undergraduate colleges. The combined resources of the

libraries, the college church, the well-equipped medical dispensary and infirmary, the central business office, and the technical services are available to all the colleges.

The group, which represents a combination of English and American practices, arose from the desire of Pomona College to maintain for itself the advantages of a small college and at the same time to provide at Claremont an educational opportunity for the increasing numbers of young men and women who were seeking admission to the College at the end of World War I.

Under the leadership of the Pomona trustees, the institution now incorporated as Claremont University College was established on October 14, 1925, for the inauguration of the new plan. It assumed the responsibilities of a central coordinating agency, the direction of graduate instruction for The Claremont Colleges, and the foundation of new institutions, as they might be required. Claremont University College conducts its instructional program under the name of "The Claremont Graduate School." In addition to its own appointees, the faculty of the Claremont Graduate School includes most members of the four undergraduate faculties.

An early objective of the group plan was the establishment of a college for women. In September, 1927, Scripps College, named in honor of Miss Ellen Browning Scripps, whose generosity and vision made it possible, was opened as a residence college for 300 women. From the beginning, the main feature of its curriculum has been a unified sequence of courses in the humanities.

Claremont Men's College, the third undergraduate institution, was established in 1946 as a liberal arts college educating men for management and the professions. The College has developed residence and academic facilities for approximately 500 students.

Harvey Mudd College, named in honor of the beloved late President of the Board of Fellows of Claremont University College, was incorporated as the fourth undergraduate college in 1956. The college offers a program in basic science and engineering for approximately 300 students.

The joint services of The Claremont Colleges are administered by a committee of the five Presidents, who in rotation serve annual terms as chairman of the committee and also Provost of The Claremont Colleges, an office established in 1959. The President of Pomona College will serve as Provost for 1962-63.

The combined Boards of Trustees of the five colleges constitute the

Board of Overseers, an advisory body which meets at least annually to consider the operation of the group as a whole. Printed copies of the Articles of Affiliation of The Claremont Colleges may be obtained through the office of the president of any of the five institutions.

LOCATION

Pomona College is exceptionally fortunate in its location and its surroundings. The city of Claremont, which has grown up around Pomona and The Claremont Colleges, is an academic, residential community of distinction. Although Claremont is a quiet college town of some 13,000, it is but thirty-five miles from the center of Los Angeles by the San Bernardino Freeway, on which there is convenient bus service.

Transcontinental rail service for Claremont is provided by the Santa Fe, the Union Pacific, and the Southern Pacific Railways. Stations for all three lines are in Pomona, a city of over 65,000, only four miles away.

The College is easily accessible by air. Two airlines operate east and west flights from Ontario International Airport, only seven miles from the college campus. There are frequent helicopter and bus services from the Pomona Valley to the Los Angeles International Airport, some 50 miles away.

THE CAMPUS

POMONA COLLEGE has a campus of great beauty and one of the most modern and best equipped physical plants in the United States. The College occupies approximately one hundred and twenty acres, of which sixty are included in Blanchard Park, the gift of Nathan W. Blanchard, approximately ten in Alumni Athletic Field, and fifty in the campus proper. The College centers on Marston Quadrangle, built and endowed by George W. Marston, 1850-1946, distinguished citizen of San Diego, an original trustee of Pomona and for many years President of the Board.

Other beautiful and specially landscaped areas are Memorial Court, honoring certain former members of the College, and Harwood Garden on the men's campus which honors the late Frank H. Harwood, '98, a trustee and former President of the Board. The Stover Memorial Walk, from College Avenue to College Way, honors the memory of the late Clarence T. Stover, '21, a trustee and chairman of the Buildings and Grounds Committee.

Pomona College has thirty-one buildings of its own, and also shares eight other buildings which Claremont University College owns and operates for all The Claremont Colleges.

ADMINISTRATIVE AND GENERAL ACADEMIC BUILDINGS

Mary L. Sumner Hall, a hotel which in 1889 became the original building of the college, was removed from its first site in 1922, remodeled for administrative and faculty uses, and named in memory of the wife of Rev. Charles B. Sumner, LL.D., one of the Founders of Pomona.

Holmes Hall, the first academic building, erected by the college in 1893, is a memorial to Cyrus W. Holmes, Jr., of Monson, Massachusetts. Reconstructed in 1916, it is now devoted to recitation rooms, departmental offices, and an auditorium seating 750. A small addition for a Drama Workshop was built in 1957.

The Andrew Carnegie Building, a gift of Mr. Carnegie, which served as the College Library from its construction in 1908 to June, 1952, was remodeled in 1952, for use as a classroom and office building for the Social Sciences.

Pearsons Hall of Science, the gift of Dr. D. K. Pearsons in 1898, and for many years the home of the Departments of Physics and Mathematics,

was renovated and reorganized during the summer of 1958 as a classroom and office building for non-laboratory departments.

The Claremont Colleges maintain a joint Business Office in the new Pendleton Business Building, constructed in 1959, and named in honor of Mr. and Mrs. Morris B. Pendleton, '22. The colleges are served by a central heating plant, and by a common shops and maintenance department.

ART AND MUSIC BUILDINGS

Rembrandt Hall, built in 1914 and enlarged in 1937, is the original art building of the College. Since 1958-59, it has been devoted primarily to studio purposes.

The Gladys Montgomery Art Center, named for Mrs. Victor Montgomery, which was opened in September, 1958, amplified our art facilities by providing sculpture studios, a lecture hall, exhibition galleries, and departmental offices.

Mabel Shaw Bridges Hall of Music, given by Mr. and Mrs. Appleton S. Bridges of San Diego in 1915, in memory of their daughter who died while a student at Pomona College, offers excellent facilities for the study of music. It contains, in addition to private studios, an unusually beautiful auditorium seating 700.

Mabel Shaw Bridges Auditorium, also the gift of Mr. and Mrs. Appleton S. Bridges in memory of their daughter, was constructed in 1931. It has a seating capacity of 2600, and is held and administered by Claremont University College on behalf of The Claremont Colleges.

The Greek Theatre, an open-air amphitheatre located in Blanchard Park, was built in 1910 and extensively reconstructed in 1960-61.

SCIENCE BUILDINGS

Mr. Frank R. Seaver, '05, has made possible at Pomona the construction of two magnificent new science buildings, which with their equipment cost approximately \$3,250,000.

Robert A. Millikan Laboratory, the physics-mathematics-astronomy building, which was placed in use in September, 1958, provides unexcelled facilities and equipment for instruction in these departments.

Seaver Laboratory, the biology-geology building, which was opened in September, 1959, has the finest and most modern equipment for work in these fields.

Frank P. Brackett Observatory, the gift of Mr. Llewellyn Bixby, '01, has served the Department of Astronomy since 1908. A second building in the Observatory area, the gift of Mr. Frank R. Seaver, '05, was constructed in 1950. The dome houses the Clara Whitney Shatto Reflector Telescope, and the main floor contains classrooms and a library.

Mason Hall of Chemistry, the gift of Mr. W. S. Mason, in 1922, provides facilities for the study of Chemistry.

Crookshank Hall, given in 1922 by Dr. D. C. Crookshank, is occupied by the Departments of Botany and Psychology.

Harwood Hall, given in 1915 by Mr. A. P. Harwood, contains lecture rooms and laboratories for the Department of Psychology.

HONNOLD LIBRARY

The Honnold Library, which was given by Mr. and Mrs. William L. Honnold to Claremont University College for The Claremont Colleges, since 1952 has housed the Pomona College Library along with the libraries of Claremont Men's College, the Claremont Graduate School, a part of the Scripps College Library, and since 1956 the library of Harvey Mudd College. For information on the resources of the Honnold Library see page 61.

PHYSICAL EDUCATION AND ATHLETIC FACILITIES

The War Memorial Gymnasium, given to the college by students, alumni, trustees, and friends, commemorates the men and women of Pomona College who gave their lives in World War I and World War II. Completed in December, 1950, the building includes an excellent basketball court with seats for 1200 spectators, a classroom, a memorial library, staff offices, and commodious shower and locker rooms.

The Memorial Training Quarters, constructed in 1922 as a memorial to the men of Pomona College who lost their lives in World War I, has been incorporated as the east wing of the new Memorial Gymnasium. It represents the gift of the parents of one of these men, Sheldon Gerry, '17, supplemented by the gifts of alumni, students, and friends.

A swimming pool, of the standard size for water polo, and fully equipped with modern appliances, is open to both men and women for instruction and recreation throughout the year.

Alumni Field, consisting of about ten acres, has been developed by the alumni into athletic grounds unsurpassed in the Southwest in beauty

of setting. First-class tennis courts, an excellent track, baseball and football fields, a hockey field, and basketball courts are within the limits of the campus. A ticket booth, wall, and gate for Alumni Field were built in the autumn of 1950, as a gift of the class of 1916.

Athearn Field, given in memory of the late Fred G. Athearn, of the class of 1900, by a group of his business friends, and constructed in 1957-58 on land east of Clark Hall, provides touch football and softball fields, and other recreational facilities for the men's campus.

The William Renwick Gymnasium, named in memory of an early donor to the college, was first erected as a military barracks in World War I. It provides general facilities for the women's department of physical education.

RESIDENCE AND DINING HALLS FOR MEN

Helen R. Walker Hall, the gift of Helen R. Walker of Glendale, California, was opened for use in 1953. Its rooms, grouped around three courtyards, accommodate 108 men. Walker Hall also includes a lounge and reception room for the entire men's campus.

Albert K. Smiley Hall, the first residence hall for men, built in 1908, and thoroughly renovated during the summer of 1957, accommodates sixty-nine students.

The Eli P. Clark unit, erected in 1929, includes three residence halls with accommodations for 286 students, and is a memorial to the late Vice-President of the Board of Trustees.

Edwin C. Norton Hall, constructed in 1956 and named in memory of the late first faculty member and first Dean at Pomona, contains thirty-six single rooms.

Lucien H. Frary Dining Hall for Men, given by Mr. George W. Marston in 1929 in memory of Rev. Lucien H. Frary, a Trustee from 1892 to 1903, seats 375 in the main hall and includes three smaller dining rooms for special uses.

The men's campus is embellished by notable works of art. Frary Hall is the site of two famous murals: "Prometheus," by Jose Clemente Orozco, painted in 1930, and "Genesis," by Rico Lebrun, painted in 1960. The Smith Memorial Tower, completed in 1961, honors its donors, Edwin L. Smith and the late Mrs. Smith.

RESIDENCE AND DINING HALLS FOR WOMEN

Harwood Court, constructed in 1921 and named in memory of Mrs.

Charles E. Harwood, and including Strong Hall, accommodates 136 women.

Florence Carrier Blaisdell Hall, erected in 1936 and named in honor of Mrs. James A. Blaisdell, wife of the fourth President of the College, houses 95 women.

Della Mulock Mudd Hall, which honors the wife of the late Seeley W. Mudd, a Trustee of Pomona, was completed in the spring of 1947. The building has accommodations for 98 women, most of them in single rooms.

Anna May Wig Hall, named in memory of the late Mrs. R. J. Wig, was placed in use in September, 1959. It has accommodations for 97 women.

The College also maintains two smaller residences for women, one of which is used as the Maison Francaise for students majoring in French, and one as the Casa Hispánica for students majoring in Spanish. Beautiful and commodious dining facilities are available for all women students. Residents of Harwood Court and Anna May Wig Hall are served by the Aurelia Squier Harwood Memorial Dining Hall built in 1931.

The Mary McLean Olney Dining Hall, constructed in 1936, which has accommodations for 120 students, serves many special college purposes and occasions.

Gibson Dining Hall, built in 1949, honors the late Jessie E. Gibson, former Dean of Women. It serves the students living in Blaisdell Hall and Mudd Hall.

EDMUNDS UNION

The Charles K. Edmunds and Katharine P. Edmunds Student Union, which honors the late fifth President of the College and his wife, provides a social center for all students and an attractive ballroom in which all formal dances are held. This building, made possible by the gifts of many parents, supplemented by funds from the Associated Students and the bequest of the late Florence Riley, was built in 1937 and houses student offices, including publications, the manager's office, and the Cooperative Store.

The east wing of Edmunds Union, which houses the fountain and sandwich facilities, and also includes a full basement for recreational use, was completed in January, 1951, as a gift of the Associated Students.

HEALTH FACILITIES

Memorial Infirmary, given in 1931 in memory of Colonel Seeley W. Mudd, is administered by Claremont University College and is operated jointly for the benefit of students in all The Claremont Colleges. Twenty-seven beds are available. The Infirmary is situated on Amherst Avenue, north of Foothill Boulevard.

The Baxter Medical Building, the gift of Doctor and Mrs. George E. Baxter to Claremont University College, serves the students of The Claremont Colleges. It provides an office where the College Physicians and a nurse are available for consultation and the treatment of minor ailments.

OTHER FACILITIES

The President's House at 345 North College Avenue was the gift of Dr. D. K. Pearsons. It was constructed in 1900, and has been the home of all Presidents of the College since that time.

A replica of the original house in Pomona in which the College first opened in September, 1888, was erected on the campus in 1937 through the generosity of an anonymous donor.

The beautiful Bosbyshell Fountain in the courtyard of the men's campus commemorates the gift to the College of a deep well independent water supply by Edward P. and Mary G. Bosbyshell.

THE FACULTY HOUSE

Pomona shares with the other Claremont Colleges the beautiful Faculty House which the late Harvey S. Mudd and Mrs. Mudd and the Seeley W. Mudd Foundation gave to Claremont University College for the use of the faculties of all the colleges at Claremont. Situated just south of the Honnold Library, the Faculty House provides an ideal meeting and recreational center for faculty groups.

CENTER FOR RELIGIOUS ACTIVITIES

The McAlister Center for Religious Activities, placed in use in September, 1959, is the administrative home of the College Church, and the center for religious activities in The Claremont Colleges. The building was made possible by a gift from the estate of the late Mrs. Amelia McAlister Upshur of San Marino, California, and by contributions from each of The Claremont Colleges.

THE CLAREMONT INN

The Claremont Inn, beautifully situated on College Avenue opposite the campus since 1906, is the guest house of the colleges and community. The Inn is owned and operated by Pomona College. Parents and friends are invited to use the facilities of the Inn during visits to Claremont. Public and private dining rooms and room accommodations for sixty guests are available.



Harwood Memorial Garden on the Men's Campus



Change of Classes between Holmes Hall and Pearsons Hall



Stover Memorial Walk

The Edmunds Union Serves as a Campus Social Center



ADMISSION

THE COLLEGE SEEKS students of superior academic promise, high standards of personal conduct, and sufficient stability and self-discipline to carry on their education without the necessity of excessive supervision and direction.

Students are admitted to Pomona College upon evidence which satisfies the Committee on Admissions that: (1) the applicant possesses the necessary preparation and ability to carry successfully the academic program offered here, and will actually use them to that end; (2) the College, with its program and traditions, and the applicant, with his capacities, interests and needs, are mutually well suited to each other.

It is not possible to state a minimum record which will insure admission as the College has many more qualified applicants than available space. In the selection of students academic achievement and promise are primary factors but the Committee makes every effort to take into account character and special aptitudes and skills. The final decision is based on the judgment of the applicant as a person rather than on narrowly technical requirements.

Students are not considered to be officially matriculated in the College until they have completed satisfactorily one semester in full-time attendance. (See page 90.)

Any person interested in preparing for Pomona or any school official who is responsible for directing the preparatory programs of students is invited to call on the Dean of Admissions at any time regarding the acceptability of candidates or for advice on specific programs.

For further information, write to Office of Admissions, Sumner Hall, Pomona College, Claremont, California.

ADMISSION TO FRESHMAN STANDING

The College does not require any particular pattern of secondary school courses but assumes candidates will have taken a college preparatory course. Under normal circumstances this is assumed to mean four or five academic subjects each year and particularly during the eleventh and twelfth grades. Three years of mathematics are now advised for all students and four for students who expect to continue in mathematics or physical sciences. There is no absolute requirement for credit in a foreign language for entrance, but in most fields of concentration a reading knowledge of at least one foreign language is essential. For

students who enter after September 1, 1963, there will be a language requirement for graduation. One method of meeting this requirement will be a satisfactory score on a College Entrance Examination Board Achievement test. Few students make a satisfactory score with fewer than three years of language study in secondary school. Four years of English and two or three years in sciences and in the social sciences are advised.

The Committee considers the quality of the record more important than the exact arrangement of subjects. Students are advised to register for honors or advanced placement sections when these are available and the student is eligible for them.

It is normally assumed that candidates will have received a high school diploma. Students from foreign countries or those who are following unusual patterns of preparation may submit other evidences of their readiness to undertake college work.

All candidates are required to take the Scholastic Aptitude Test administered by the College Entrance Examination Board. (See page 37 for further information.) This requirement does not lessen the importance of the school record, the personal ratings, and personal interviews. A personal interview is not required unless requested by the Committee.

Students who request college credit for honors courses taken in high school are required to submit scores on the Advanced Placement Tests given by the College Entrance Board. The decision as to whether or not credit will be allowed will be made by the Classification Committee and reported at the time of registration.

It is recommended that applications be filed at the beginning of the Senior year in high school. The Scholastic Aptitude Test should be taken no later than January of the Senior year, and the candidate is responsible for registering for this with the College Entrance Board.

The final date for accepting applications for admission to freshman standing in September, 1963, is March 1. All applicants are urged to file applications early in the Senior year and thus allow time to secure additional information when this is desirable. Applications are withdrawn unless the specified information is received by March 15.

EARLY DECISION PLAN

When Pomona is clearly the first choice college (and a student would not file an application elsewhere except for reasons of insurance) the Committee will, under certain conditions, give advice about its action.

If an application is completed by December 1, including: (1) transcript of record through the sixth semester (11th grade), (2) CEEB SAT scores for the preceding March, May, or August, (3) personal recommendations, the Committee will report by December 15 its decision on the application by rating students as follows:

- A. Admission will be offered provided the record continues to be of the same general quality.
- B. The record meets minimum requirements for admission and suggests adequate ability and preparation to do the work required. A decision cannot be reached until all applications can be considered.
- C. Admission is doubtful. A stronger record for the seventh semester, or improved College Board scores might change the probabilities, but it is prudent to assume that admission will not be offered.

The purpose is to make it unnecessary for students for whom Pomona is the first choice, and who receive an "A" rating, to apply elsewhere.

The Committee prefers to withhold decisions on applications received or completed after December 1 until the results from the December or January Scholastic Aptitude Test and the seventh semester transcript can be filed. It normally does not attempt to give preliminary ratings on these applications completed after December 1, but considers them at the regular selection of students made early in April.

In all cases admission is granted subject to evidence of satisfactory health on the part of the candidate.

ADMISSION TO ADVANCED STANDING

The final date for accepting applications for admission to advanced standing is May 1 for entrance in September, and December 1 for entrance in February.

In considering applications for advanced standing the College follows the general policy used for Freshman candidates. It requires an official transcript, or transcripts, of all college work for which the applicant has been previously registered. These transcripts must show the detailed record in all secondary as well as all collegiate institutions attended. The College further requires honorable dismissal from the previously attended institution together with recommendations from the proper college officials. In addition all candidates are required to submit scores on the Scholastic Aptitude Test given by the College Entrance Examination

Board. It is not necessary to repeat the test if it was taken during the Senior year in secondary school.

Credit allowed for work taken in other institutions will be determined by the Classification Committee after the candidate has been accepted.

ADMISSION TO SPECIAL CLASSIFICATION

Mature students, particularly those equipped for advanced studies, may be admitted as special students to courses for which, by ability and preparation, they may be fitted. Special students are not candidates for a degree, though students admitted to this classification may be accepted later as candidates for a degree.

COMBINED PLAN WITH CALIFORNIA INSTITUTE OF TECHNOLOGY

Along with several other liberal arts colleges, Pomona has an arrangement with the California Institute of Technology whereby qualified students may receive the Bachelor of Arts degree from Pomona and a Bachelor of Science degree from the California Institute of Technology after a combined five-year program, of which the first three years are taken at Pomona. Without the combined plan at least six years would usually be required to complete the work for both degrees. Students under the combined plan will be accepted at the California Institute of Technology without examination if recommended by Pomona. For detailed program see page 75.

APPLICATION PROCEDURE

Application for admission to Pomona College must be made on the form furnished by the college and all credentials must be filed with the Committee on Admissions. The forms and credentials required are:

1. *Application Form I*. Including \$20.00 fee. This fee is not refundable as it is charged to cover a portion of the cost of processing applications.
2. *Personal Rating Scale Form II*. Confidential reports by the principal or counselor and classroom teacher to be sent directly to the Committee on Admissions.
3. *Applicant's Statement of Qualifications*. The Committee seeks the most complete possible picture of each candidate and to this end requires a personal autobiographical statement to supplement the other information. Some or all of the following points may be discussed although the candidate need not consider this an outline to be followed: (1) your educational plans for the next four years

and for graduate work if you plan this; (2) your major interests and aptitudes, either of an academic or non-academic nature; (3) any preparation for college other than that which will be evident from your school record. If Pomona is your first choice college, a statement of your particular reasons for choosing it will be helpful; but candidates are free to omit this information if they prefer to do so. It is used by the Committee to estimate the number of acceptances of offers of admission. *No printed form is provided.* A typed letter not exceeding 1000 words is suggested.

4. *Official Transcript* of high school record to date. At the time of selection of candidates, work in progress will be considered in fulfillment of requirements, and admission will be granted subject to the filing of a final transcript showing the satisfactory completion of all secondary school work. The transcript form ordinarily used by the school is satisfactory. It should include an interpretation of the grading system. It should not be sent until the first half of the Senior year has been completed.
5. *Medical Certificate*, signed by a licensed M.D., on a form furnished by the college after admission has been granted provisionally. The College reserves the right to reject students for health reasons.
6. *Room Deposit* of \$50 is due at the time admission is accepted. No refund of the room deposit will be made if a student withdraws before entrance. (See page 41 for regulations concerning the refund of this deposit for matriculated students.)

Failure to make this payment results in the cancelling of admission. Candidates on the alternate list for whom places are not provided will have the entire deposit refunded.

SCHOLASTIC APTITUDE TEST

All candidates for admission to Pomona College are required to take the Scholastic Aptitude Test administered by the College Entrance Examination Board and are held responsible for making application to the Board. Students who plan to enter in September should take the test in December or January. Students who plan to enter in February should take it in May, August or December. Any one of these dates is satisfactory. Freshmen are not admitted in February, but there is usually space for a few transfer students in mid-year.

The College Entrance Examination Board will hold a series of examinations in 1962-63. Application to take an examination must be filed

approximately four weeks in advance of the examination date. The schedule for the examinations with the dates of registration is as follows:

<u>Date of Tests</u>	<u>Regular Registration Closes</u>	<u>Late Registration Closes</u>
Dec. 1, 1962	Nov. 3, 1962	Nov. 17, 1962
Jan. 12, 1963	Dec. 15, 1962	Dec. 29, 1962
March 2, 1963	Feb. 2, 1963	Feb. 16, 1963
May 18, 1963	April 20, 1963	May 4, 1963
Aug. 14, 1963	July 17, 1963	July 31, 1963

The above dates apply to centers on the North American Continent. Information about dates for other centers is contained in the College Board Bulletin of information. There is a penalty fee of \$3.00 for late registrants.

The Scholastic Aptitude Test will be given in California (but nowhere else) on November 3, 1962. The scores for this test may be used for Early Decision.

For admission to Pomona College applicants are required to take the Scholastic Aptitude Test only. It is not necessary to take the Achievement Tests. The writing sample is not required.

Copies of the Bulletin of Information may be obtained without charge from the College Entrance Examination Board. The Bulletin contains rules regarding applications, fees, and reports; rules for the conduct of the tests; advice to candidates; descriptions of the tests; sample questions; and lists of examination centers.

Candidates must secure application forms from the College Entrance Examination Board and file completed forms, accompanied by the examination fee of \$5.00, at one of the offices described below. If possible, applications should be filed several weeks in advance of the closing date for regular registration for an examination.

Students who wish to take the examinations in any one of the following western states or Pacific areas: Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming, Alaska, Hawaii, Mexico, Alberta, British Columbia, Australia, and all Pacific islands including Formosa and Japan, should address their inquiries and send their applications to College Entrance Examination Board, P.O. Box 27896, Los Angeles 27, California.

All others should write to College Entrance Examination Board, P.O. Box 592, Princeton, New Jersey.

EXPENSES

CHARGES FOR TUITION, fees, and room and board will approximate \$2,300 for each student in 1962-63. A substantial portion of the total educational cost is borne by the College through the use of contributed funds and income from endowment.

The College reserves the right to change any of the following fees at any time should conditions make it necessary.

General Fees

TUITION, including season tickets for Artist		
Course and Athletic Events	per semester	\$625.00
HEALTH FEE	per semester	17.50
ASSOCIATED STUDENT DUES	per semester	15.00
GRADUATION FEE		10.00

Residence Fees

ROOM AND BOARD	per semester	\$475.00
In Clark Hall a few rooms with fireplaces are available		
for men, for which the charge is \$498.00	per semester	
ROOM DEPOSIT (See pages 37, 41)		50.00

Departmental Fees

	<i>Per Semester</i>
LABORATORY FEES	\$2.00 to 10.00
LABORATORY BREAKAGE DEPOSITS	4.00 to 15.00
<i>See Courses of Instruction.</i>	

APPLIED MUSIC FEES

For those paying regular tuition:

One-half hour private lesson per week	45.00
Each additional half-hour	40.00

For those carrying less than three courses a semester, exclusive of work in applied music:

One-half hour private lesson per week	70.00
Each additional half-hour	50.00
Class instruction	25.00

PRACTICE FEES

Piano, one hour daily	6.00
Bridges Hall Organ (four manuals), one hour weekly	5.00
Two-manual Organ, one hour weekly	2.50
Bridges Auditorium Organ, Claremont University College (advanced students only), one hour weekly	15.00
Students in Music 1, 55, 107, 113, and 158 will be charged \$6.00 per semester for the use of a practice piano unless they are already paying one of the above practice fees.	

Fees for Special Privileges

LATE REGISTRATION (See page 89)	\$2.00 to 10.00
CHANGE OF PROGRAM (See page 90)	3.00
SPECIAL EXAMINATIONS	2.00
CAMPUS FEE FOR AUTOMOBILES (See page 67)	5.00 to 10.00

Fees for Part-time Students

SPECIAL TUITION FOR STUDENTS CARRYING LESS THAN THREE COURSES IN A SEMESTER	per course	\$200.00
	per half-course	100.00

Auditor's Fee

FOR PERSONS OTHER THAN THOSE TAKING COURSES FOR CREDIT	per course	\$20.00
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RESIDENCE FOR MEN

The College is equipped with residence and dining halls to accommodate its students. All the residence halls have both single and double rooms. It is expected that single men not actually living at home will room and dine in college halls. Admission is offered on this assumption unless an exception is made in the statement offering admission. Other exceptions to this regulation may be granted by the Dean of Men, but ordinarily only for medical reasons or for others of comparable importance. Students living at home or working for board or room may make special arrangements with the Dean of Men. Students living in residence are not permitted to maintain by rent, lease, or otherwise, rooms off campus, either individually or by groups. Students who live in approved off-campus quarters are not permitted to maintain other rooms in addition to those approved.

Residential campus privileges are provided only on the basis of an inclusive charge varying according to location of room and including board. The standard charge on the men's campus is \$475.00 per semester, but a few rooms with fireplaces are available at \$498.00. These charges include necessary furniture, rugs, bed linen and towels, the laundering of the same and the care of rooms. The only articles to be furnished by the students are blankets, spreads for single beds, and study lamps.

The College has no housing for married students.

RESIDENCE FOR WOMEN

Women students are expected to room in residence halls and board at college dining rooms. Freshmen are normally assigned to Harwood

Court or Anna May Wig Hall. Students living at home or working for room or board may make special arrangements with the Dean of Women.

Harwood Court, Blaisdell Hall, Anna May Wig Hall, and the two Language Houses have both single and double rooms, as well as suites. Except for a few double rooms, single accommodations are provided in Mudd Hall. Each room is adequately furnished; the only articles to be provided by the students are linen, blankets, and spread for a single bed. Residential campus privileges are provided on the basis of an inclusive charge of \$475.00 per semester.

RESIDENCE REGULATIONS

The residence privilege does not include the use of rooms during vacation periods. The residence halls are open for new students the Friday before the opening of the college year and for returning students the day of registration. The residence and boarding privileges end 24 hours after the last examination at the end of each semester for all students except Seniors and those asked by the college to remain through Commencement. The residence and dining halls are closed the day after Commencement.

Each student is required to make a deposit of \$50 for a room in a residence hall. This deposit is held by the College until after the student's graduation or withdrawal, at which time any outstanding charges for damage to college property, or any miscellaneous unsettled bills, are deducted from it. Any balance remaining is refunded after graduation or withdrawal. For a student who withdraws from residence before graduation, the room deposit, less any charges, will be refunded provided he has been in residence for one semester or more and gives notice of withdrawal not less than sixty days before the opening of the term for which he is withdrawing.

The College reserves the right to dismiss from a residence hall without rebate of room rent and to withdraw dining hall privileges in the case of any student who becomes an undesirable occupant.

The College may dispose of any articles left by students for more than six months.

BILLS

All college bills are due each semester in advance and must be paid at the time of registration. Students wishing to pay by installments may do so by arrangement with the Bursar at the time of registration.

At least one-quarter of the total bill for the semester must be paid in advance. Even though the student has a financial grant, one-quarter of the remainder of the bill must be paid in cash at the time of registration. A service charge of from \$3.00 to \$6.00 per semester will be made for deferred payments, according to the number of installments. It is expected that payment of installments will be made on or before due dates; failure to do so without the approval of the Bursar will result in an additional service charge. A student whose bills are still unpaid at the end of any semester may not register for the following semester or receive transcripts or grade reports until he has arranged with the Business Office for the payment of bills.

No refunds are made to those leaving before the end of the semester except that in the case of those leaving before the middle of the semester because of illness one-half of the tuition and laboratory fees are refunded and in the case of those dropping out for good cause within a week of their registration all but \$25.00 is returned. No refund is made on a room payment unless the room is re-rented to someone not then rooming in a college residence hall. The college reserves the right to use and reassign the room of a student who withdraws or goes on leave during a semester.

Students with unpaid bills are not given honorable dismissal or graduated. Seniors must settle all college bills and library obligations by four p.m. on the fourth day preceding Commencement if they are to receive their diplomas with their class.

FINANCIAL AID TO STUDENTS

THE COLLEGE offers an extensive financial aid program and approximately \$275,000 from College funds will be available to Pomona students during 1962-63. These funds are derived from endowments, from individual and corporation gifts, and from the annual Alumni Fund. In addition, Pomona students are eligible for California State Scholarships in amounts from \$300 to \$900 each, and 161 State Scholars were in residence during 1961-62.

Pomona College has adopted, with certain other West Coast colleges and universities, a joint policy aimed at achieving uniformity and equity in the distribution of scholarship funds to entering students. All these institutions make a distinction between 1) recognition of academic honor and achievement, and 2) recognition of need for financial assistance. Honors at Entrance are awarded solely in recognition of distinguished academic achievement. They are awarded without regard to need and carry no monetary grant.

Grants of financial aid are awarded to students who achieve outstanding records and who need financial assistance to attend college. In making awards, the Committee on Financial Aid considers the candidate's promise in intellectual fields, his force of character and physical vigor, his probable interest in different aspects of the college community, and his leadership qualities. These factors determine the selection of those to receive aid, but the size of the stipend will be determined entirely in accordance with need, unless otherwise indicated. Normally, one-half the annual stipend is paid at the beginning of each semester.

If a financial aid holder's record is satisfactory and need continues, aid will be continued during the student's residence in college. Each record is reviewed annually, with attention being given to the student's participation in and contribution to the college community as well as to his academic record. The amount of the stipend will be determined each year on the basis of the financial situation at that time. The college currently offers some of the assistance in the form of loans during the Junior and Senior years.

Entering students, either Freshmen or Junior College graduates, in need of assistance, should *complete* by March 1, 1963, an application for admission, and should submit by February 15, on forms available from high school counselors, or from the Pomona College Financial Aid Office if the schools do not have the forms, a financial statement to the College Scholarship Service. This service, established by the College Entrance Examination Board in 1954 on a nation-wide basis, collects

from parents or guardians information relating to the financial resources of scholarship applicants, and sends copies to the colleges and universities to which applicants are applying for financial grants. Students transferring from other four-year colleges are not eligible to apply for financial assistance until they have completed a minimum of two semesters in residence at Pomona College. Loan funds are not available for the use of Freshmen or other new students.

Financial stipends are also available to other matriculated students, and are awarded in competition, using the same procedure as for Freshmen. Applications for matriculated students should be filed in the Office of Financial Aid by May 1.

FINANCIAL GRANTS AVAILABLE FOR 1962-63

Alumni Scholarships: Five or more scholarships will be awarded from the Alumni Scholarship Fund with stipends which may go as high as \$1250 annually according to financial need. These scholarships are awarded not only on the basis of the academic record but also on the all around contribution to the life of the secondary school and community, and the promise of such contribution in college and afterwards. Open to men or women students.

Alpha Gamma Sigma Scholarship: One award with maximum stipend of \$1250 is given by Pomona College to a Junior College graduate who is recommended by Alpha Gamma Sigma.

Appreciative Parents Scholarship: A scholarship fund of \$16,000 has been established by the parents of a recent graduate in appreciation of the work of the College. The income from the fund is to be used to assist a worthy student who could not otherwise attend Pomona.

The Associated Men Students Scholarships: The Associated Men Students of Pomona College offer annually two awards of \$100 each. Each award is given to a man student at the end of his Junior year, one to the man who best exemplifies a combination of scholarship with leadership and proficiency in athletics, and the other to the man who best exemplifies a combination of scholarship with leadership and attainment in extracurricular activities.

The Donald Houghton Bacon Scholarship: The parents of Donald H. Bacon, who died at the College in 1948, have established in his memory a \$5256 scholarship fund, the income of which provides an annual award to a deserving student who prepared for college at the Tucson, Arizona, High School, and who is recommended by the Superintendent of Schools in Tucson.

The Olivia D. Baker Scholarship: The Olivia D. Baker Scholarship has been established in memory of Mrs. Olivia Dennison Baker. The scholarship is open to students of a minority race with preference given to negro candidates. The amount of the award will be determined by the student's need, up to \$1200 annually. It is open either to men or women, to Freshmen or transfer students.

The Anne Jencks Beach Memorial Scholarship: A fund of \$15,133 has been established by the late William N. Beach, '01, in memory of his wife, also a graduate of the class of '01, the income from which is to be used annually to assist worthy students of good ability.

The Llewellyn Bixby Memorial Scholarship: A scholarship of \$500 available annually to a man or woman who has completed the Freshman year in Pomona College and who shows proficiency and genuine interest in science was endowed by Mrs. Llewellyn Bixby, '01, in memory of her husband.

The Henry G. Brainerd and Fannie Howard Brainerd Memorial Scholarships: A fund of \$25,084 provides income which is available for scholarships for men or women.

The Theodore S. Brown Scholarships: A fund of \$25,808 has been established by Mr. and Mrs. Theodore S. Brown, the income from which is available to students of good character who need financial help to remain in college.

The J. Carlyle Bryant Scholarship: A fund established by Mr. and Mrs. George W. Bryant in memory of their son, J. Carlyle Bryant, '45, is available to an outstanding, all-around man in any class at the college, who possesses qualities of character, scholarship, and athletic ability, and who is particularly interested in mathematics. The amount of the scholarship varies from \$500 to \$900, depending on the need of the recipient. If there should not be a properly qualified candidate in mathematics, the scholarship may be awarded to a student in one of the other physical sciences.

The Frank G. Butler Scholarships: A scholarship fund of \$80,903 has been established in memory of Frank G. Butler, the income from which is available to Sophomores, Juniors, or Seniors who have achieved scholastic distinction.

The Winifred Smith Buxton Scholarship: Winifred Smith Buxton, a member of the class of 1899, has established a scholarship fund of \$9,345, the income from which is to be awarded annually to a worthy student at Pomona College.

California Scholarship Federation Award: A scholarship with maximum stipend of \$1250 is given by Pomona College to a man or woman nominated by the California Scholarship Federation.

The Canfield Foundation Scholarships: The Canfield Foundation has made available \$5000 for scholarships for women students from Los Angeles County entering Pomona College in September, 1962. These scholarships will be continued through the full undergraduate course subject to the approval of the Financial Aid Committee and the Foundation.

The Chevy Chase Scholarship: A scholarship of \$1000 for a man or woman of Sophomore standing who has demonstrated personal and academic merit. Preference will be given to persons who are in need of financial aid because of exceptional family circumstances. Further preference will be given to negro and foreign students who have personal and academic merit and financial need.

Chemistry Contest Scholarship: A scholarship with maximum stipend of \$1250 is offered by Pomona College to a winner in the annual High School Contest sponsored by the Southern California Section of the American Chemical Society. The recipient must be among the top fifteen contestants, must show financial need, and satisfy all entrance requirements of the College.

The Claremont Church Scholarship: A scholarship of \$250 to be awarded each year to an upperclass student planning on life-time Christian service or to a Senior about to enter seminary training. Choice is made in the spring by the Financial Aid Committee upon nomination from the Department of Religion acting in consultation with the minister and a member of the World Service Committee of the Claremont Church.

College Scholarships: A fund of \$249,032 has been established over the years by friends of the College, the income from which is available for the assistance of worthy students.

The Kate Condit Memorial Scholarship: A scholarship of \$100, endowed by the late Mr. and Mrs. A. P. Condit, is awarded annually to an outstanding student in the Department of Music.

The Continental Oil Company and Douglas Oil Company Scholarship: An annual scholarship in the amount of \$500 is to be awarded to a student participating in some aspect of the International Relations program at Pomona College. The student should be qualified academically and should have financial need. An additional grant is made to the College budget to help defray the full cost of instruction.

The Daniel William Cooper Scholastic Foundation: An award of \$100 open to a man or woman in any class.

Crown Zellerbach Foundation Scholarship: A scholarship of \$1,000 for the academic year 1962-63 will be given by the Crown Zellerbach Foundation to a Junior or Senior student majoring in the field of economics. A grant is also made to the college budget to help defray the full cost of instruction.

Cyprus Mines Corporation Scholarship: An award of \$500, available for the academic year 1962-63, has been provided by Cyprus Mines Corporation. A grant is also made to the College to help defray the full cost of instruction.

The George Curtis De Garmo Scholarship: The late George Curtis De Garmo of Los Angeles has established a scholarship fund of \$17,406 at Pomona College, the income from which is available annually to a worthy student.

Arthur M. and Fannie M. Dole Scholarship Fund: A fund of \$60,000 established by the late Mr. and Mrs. Dole of Pomona, provides income for financial aid to deserving students.

Thomas J. Dowling Scholarships: A fund of \$10,000 provides income which is available for awards to men and women.

The Richard P. Edmunds Memorial Fund provides a scholarship of full tuition for an upper division man student (preferably one who has attended Pomona during the first two years) nominated to the Committee on Financial Aid by the Chairman of the Physics Department.

The Malcolm Eversole Memorial Fund: A scholarship for a man in the Junior Class to be nominated to the Committee on Financial Aid by the President of the College at the end of the nominee's second year in Pomona College. The selection is based not on scholastic rank only but on the possession of those personal qualities which indicate a high degree of promise in a student of outstanding character.

Executives' Secretaries, Inc., Pomona Valley Chapter Scholarship: An award of \$625 provided by the Pomona Valley Chapter of Executives' Secretaries, Inc., is available to a woman student at Pomona College who needs financial assistance.

The William C. Free and Mazy Bell Free Scholarships: The late Mrs. William C. Free of Pasadena has established a trust fund from which an income of approximately \$7000 per year is available to Pomona College for the awarding of scholarships to students in any of the four classes. One of these scholarships is reserved for a student concentrating in music.

The Therese Garner Scholarship: A scholarship of \$940, open to a man or woman in any class, has been endowed by Mrs. Therese Garner.

General Electric College Bowl Scholarship: A fund of \$9,000 won by the Pomona College team of Dallas Holmes, '62, David Renaker, '63, Richard Wilsnack, '64, and Matthew Cartmill, '64, in the General Electric College Bowl competition, has been established as a scholarship fund, the income to be used annually to assist worthy students.

Graham Brothers Foundation: A scholarship covering full tuition will be available for the academic year 1962-63. A grant will also be made to the college budget to help defray the full cost of instruction.

Margaret Burton Harwood Scholarships: A fund of \$51,171 has been established, income from which is available for scholarship awards to men or women.

The Haynes Foundation Scholarships: A tuition scholarship of \$1250 and a tuition-subsistence scholarship of \$1750 have been established at Pomona College by the John Randolph Haynes and Dora Haynes Foundation to assist deserving Senior students in the Social Sciences. The criteria of award include exceptional scholastic record, character, promise of professional growth, industry, and need. It is also desired that the candidates obtain some kind of internship experience in their chosen fields, or be required to write a special senior thesis. In addition to these awards, the Haynes Foundation has made a further grant of \$3000 which will be available to advanced students in the Social Sciences for 1962-63.

The A. L. Hobson Memorial Scholarship: A scholarship of \$670 open to a man student from Ventura County, California, who needs financial assistance to attend college. The recipient may be a member of any class at Pomona.

The Paul Mylrea Holden Scholarship: The late Mrs. Susie Mylrea Holden has established at Pomona College a scholarship fund of \$10,000 in memory of her son, the income from which is available annually to students who need financial help.

The Houchin Foundation Scholarship: A fund of \$5,269 has been established by the late Mr. C. E. Houchin of Bakersfield, income from which is available to Junior or Senior students who need financial aid to finish college.

The Horace Emory and Emma Banta Howard Pre-Medical Scholarships: A fund of \$169,829 has been established by Mrs. Horace Howard, the income from which will provide financial assistance to students preparing for careers in medicine, including medical research.

The William J. Howard Memorial Scholarship Fund: Established by alumni and friends in memory of William J. Howard, '14. A scholarship of \$160 is awarded annually to a student for lessons in applied music.

The Huguenot Society of America Scholarship: A scholarship in the amount of \$1,000 annually is available for a Pomona College student who has financial need, who is able to prove descendancy from the Huguenots in America in the 18th century. A description of the method of proving eligibility for the scholarship may be obtained from the Office of Financial Aid, Pomona College.

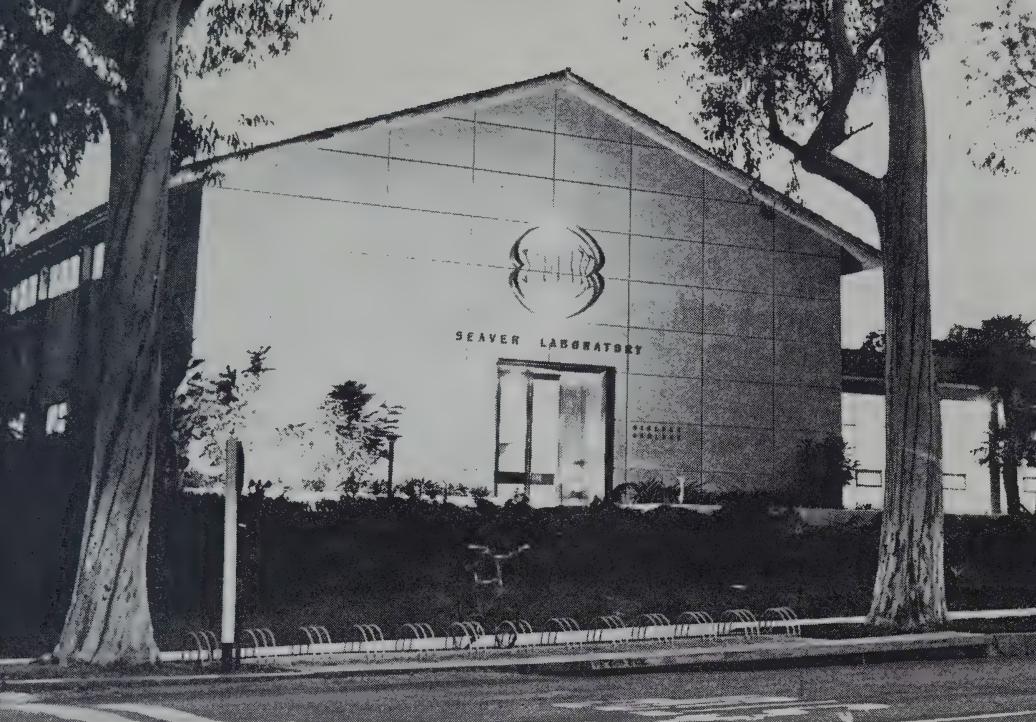
The George Kenneth Irvin Memorial Scholarship: A scholarship of \$200 per year, established by the family of the late George Kenneth Irvin, is available to a man or woman student who needs financial assistance.

The James Irvine Scholarships: A scholarship fund of \$60,000 has been established by the James Irvine Foundation, the income from which will be used to assist both men and women students at Pomona College in paying their tuition, board, lodging, and other expenses incidental to their education at the College. These scholarships are limited to students residing in the State of California, preference to be given to those in Orange County.

William L. Jencks and Lucy Atwater Jencks Fund: A fund of \$20,800 has been established by Mr. and Mrs. Jencks, the income from which is to be used to pay tuition and any and all expenses of any worthy student at Pomona College, who is financially unable to meet his own expenses.

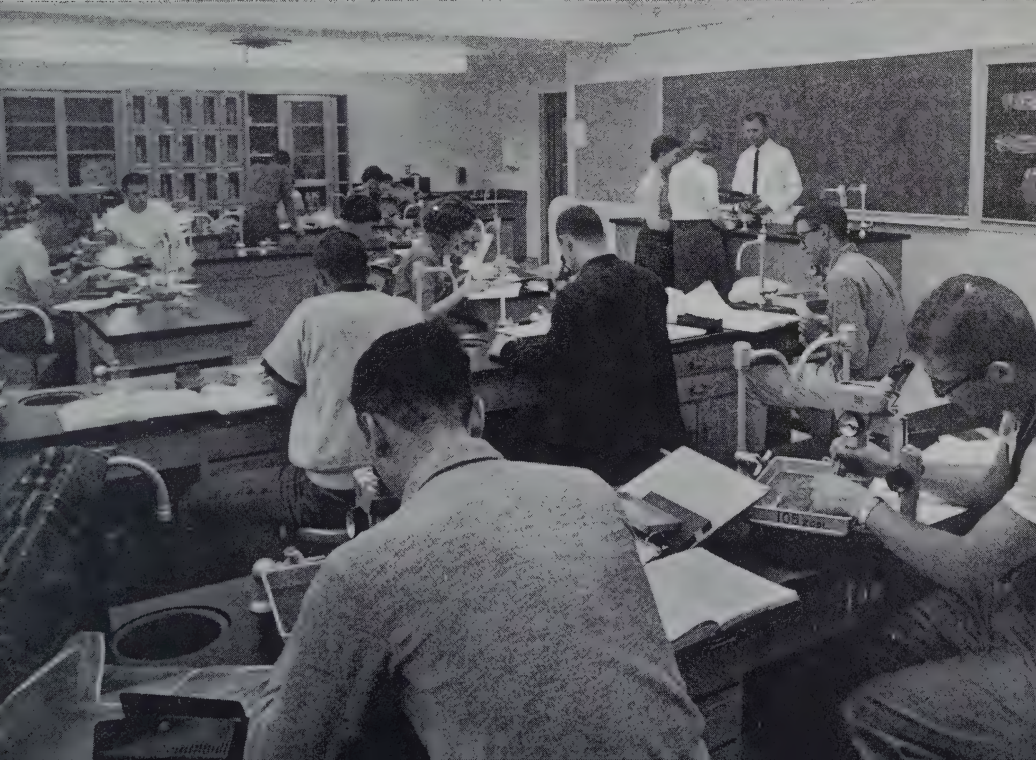
Junior College Scholarship: An award with a maximum stipend of \$1250 is available to Junior College graduates.

The Kappa Delta Honor Scholarship: An annual scholarship of \$800, established in 1926 by alumni members of Kappa Delta Fraternity and administered under a special committee, is awarded at the beginning of his Senior



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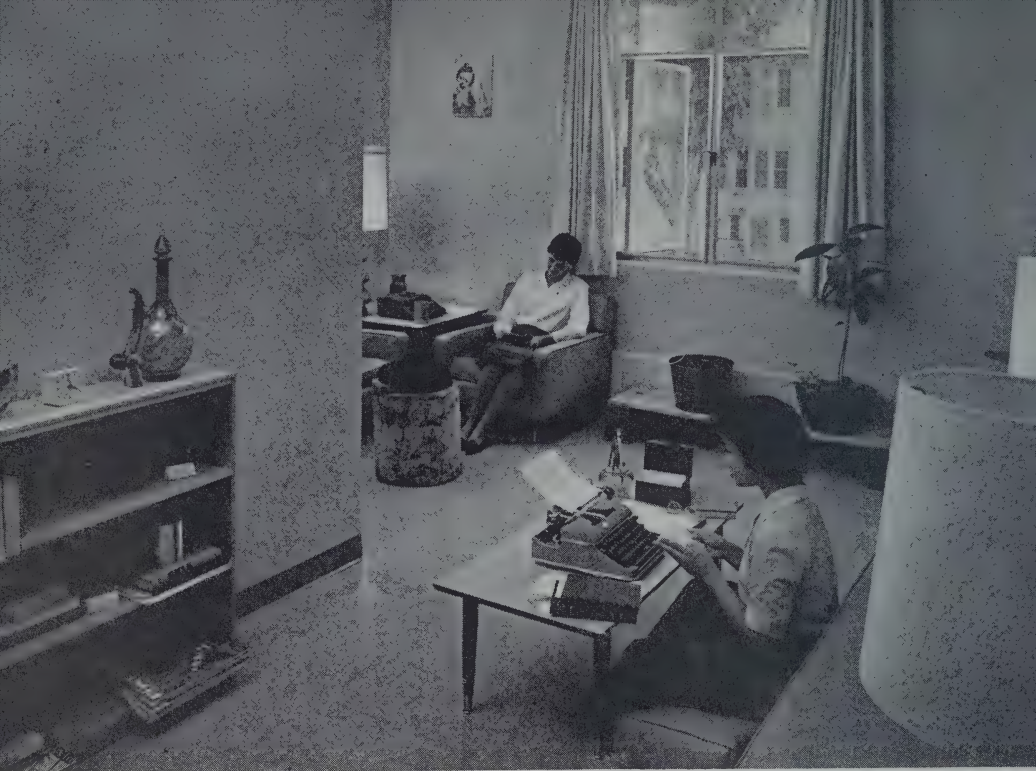


The Smith Memorial Tower: Men's Campus

Patio of the Gladys Montgomery Art Center







A Room in Anna May Wig Hall

Garden of Harwood Court — Residence Hall for Women



year to an outstanding all-around man, who shows qualities of character, intellect, leadership, sportsmanship, and proficiency in athletic pursuits. The recipient must have been in residence during all three lower years, and must rank in the highest third of all the men in his class.

The Clayton A. and Lottie Culler Langworthy Memorial Scholarships: A scholarship fund of \$25,957 has been established by the late Mrs. Clayton A. Langworthy, the income from which is to be used for the education of worthy young persons with ambition and ability who otherwise would have to forego an education.

Bertha Lebus Scholarship: A scholarship of \$1,000 endowed by Miss Bertha Lebus is available annually to a matriculated student attending the college. The recipient must be a person who shows a high degree of promise and who needs financial assistance.

Maria K. Lloyd Scholarship: This scholarship is available to an outstanding candidate who is now a resident and citizen of Greece or Turkey. The amount of the award will be determined by the student's need. It may cover as much as all college expenses for the full four years. Not to be awarded in 1962-63.

The John G. Locke Scholarship: A scholarship fund of \$5000 has been established by the late John G. Locke of La Jolla, income from which is to be available to a worthy student at Pomona College.

The Lockheed Scholarships: The Lockheed Aircraft Corporation has established at Pomona a four-year scholarship for students concentrating in a subject applicable to a career in the aircraft manufacturing industry. Such fields of concentration may be either in the sciences or the social sciences. Lockheed Scholarships include full tuition and \$500 a year toward other college expenses, plus a grant to the College budget to help defray the full cost of instruction.

The Richard N. Loucks, Jr., Music Scholarship: A scholarship fund of \$15,000 has been established by Mr. Benjamin M. Stansbury, of La Canada, in honor of Richard N. Loucks, Jr., the composer of *Hail, Pomona, Hail*. The income is awarded annually to a student majoring in applied music.

The George H. Mayr Educational Foundation Scholarships: The George H. Mayr Educational Foundation has made available a scholarship fund of approximately \$8,500 per year for the assistance of students from California who need financial aid to attend Pomona College.

The Amélie Augustine McAlister Scholarships: The late Mrs. Amélie McAlister Upshur of San Marino established at Pomona a fund of \$100,000, the income from which provides scholarships for women. McAlister Scholarships are available to women in any class who need financial assistance to attend college.

The Robert McFadden Memorial Scholarship: A scholarship of approximately \$1,100, available annually to a man student, has been established in memory of Robert McFadden, '37, who was killed in action in World War II.

The Elizabeth McIntyre Scholarship: A scholarship fund of \$28,571 has been established by the late Miss Elizabeth McIntyre, income from which is available for scholarships at Pomona College.

The Frank H. Merrill Memorial Scholarship: A four-year scholarship, to be awarded to a student whose interest is primarily in the field of science, includes full tuition of \$1250 plus as much as \$500 a year toward other college expenses. This scholarship has been established by Mr. Willis H. Merrill, '30, in memory of his father.

The Murray Minehart Music Scholarship: A fund of \$9,034 has been provided by the late Mr. Murray Minehart of Laguna Beach, the income from which is available to a student of voice.

The Minnesota Mining and Manufacturing Company Scholarships: A gift of \$1,000 has been received from the Minnesota Mining and Manufacturing Company to be used for one or more scholarships for qualified students with financial need at Pomona College for the year 1962-63.

Oliver Homes Mitchell Memorial Fund: A fund of \$47,569 established by the late Elsie Crosby Moffett provides income for a scholarship or scholarships covering the full cost of instruction to a deserving student from one of the following areas, in order of preference: Bremer County or Benton County, Iowa; the State of Iowa; any adjoining state. Should no acceptable candidate be available in any given year, the income may be used for the general educational purposes of the College.

The Faxon More Memorial Scholarships: Two scholarships of \$900 each are available annually to men students of well rounded interests and promise of leadership. These scholarships were established by Mrs. Mary E. More of Goleta in memory of her son.

Music Scholarships: Ten awards of \$170 each, to cover the cost of lessons in applied music, will be available in 1962-63.

The Blair Nixon Memorial Award: An annual award of \$180 is made from a fund established by his parents and friends in memory of Blair Nixon, '33, to a Senior varsity letter winner who exemplifies the high ideals of the college in scholarship and sportsmanship. The award is made on nomination of a special committee and is presented to a Pomona man at the beginning of his Senior year.

The Arthur Noble and Frances W. Noble Scholarship: A scholarship of \$550, endowed by the late Mr. and Mrs. Arthur Noble, is available annually to a student in any class who needs financial assistance.

The Nu Alpha Phi Memorial Scholarship: A scholarship of \$970 endowed by the members of Nu Alpha Phi Fraternity is awarded annually to a man at the beginning of his Junior year. Selection is made by a special committee on the basis of outstanding character and real financial need, the latter partially determined by records of student employment during the school year. Given in memory of the Fraternity's losses in World War II.

The Everett S. Olive Orchestral Scholarship: An annual scholarship of \$250 is awarded to a qualified student on the basis of musical ability on an orchestral instrument. It is endowed anonymously in tribute to Everett S. Olive, late Professor of Piano, whose interest has been an important factor in the development of the orchestra. It is normally given to a Freshman. The scholarship is awarded on the joint recommendation of the Music Department and the Committee on Financial Aid. An audition is normally required.

Orchestral Scholarship: An annual scholarship of \$250 is available to a qualified student who will continue study of his instrument in the Pomona College Music Department. Awarded on the basis of musical ability and orchestral competence. Will normally be given to a Freshman after audition by the Music Department.

The Walter H. Parsons and Hazen M. Parsons Memorial Scholarship: A scholarship of \$200 given in memory of Walter H. Parsons, '04, and Hazen M. Parsons, '09, is available annually to a man or woman in any class who needs financial assistance to attend college.

The Phi Beta Kappa Scholarship: A scholarship of \$200 endowed by the Pomona Chapter of Phi Beta Kappa is awarded to a Senior who has been in residence for three years at Pomona and who is selected for the high quality of his scholarship and his promise of future distinction. The award is open to both men and women.

The Flora Sanborn Pitzer Memorial Scholarship: A scholarship of \$1100 from the Sanborn-Pitzer Foundation, established by Russell K. Pitzer of the class of 1900 in memory of his wife, is available to a woman student in the Sophomore, Junior, or Senior class who has shown scholarship ability and who requires financial assistance to remain in college.

The POA Scholarships: The Pacific Outdoor Advertising Company offers a four-year scholarship to a well-rounded young man who is interested in a field of study leading to a career in teaching or business. The scholarship provides full tuition and fees for four years, and provides summer employment if desired. A grant is also made to the college budget to help defray the full cost of instruction. A new award will be made in 1963-64.

John W. Porter Trust Scholarship: A scholarship of \$500, available to a student from the Long Beach area, is provided annually by the John W. Porter Trust.

The Presser Foundation Scholarships: A fund of \$400 is given to the college annually by the Presser Foundation of Philadelphia, for the assistance of music students. Scholarships from this fund are awarded by the Music Department to students who are interested in music education or other advanced work in music.

The Physics Contest Scholarship: A scholarship with maximum stipend of \$1250 is offered by Pomona College to a winner in the annual High School Contest sponsored by the Southern California Section of the American

Association of Physics Teachers. The recipient must be among the top fifteen contestants, must show financial need, and must satisfy all entrance requirements of the College.

The Clara S. Ratekin Scholarships: The late Mrs. Clara S. Ratekin of Covina has established a fund of \$493,143, the income from which is to be used to defray the educational expenses of worthy young men and women. These awards are open to students in any class.

The Mabel Wilson Richards Scholarships: The Mabel Wilson Richards Scholarship Fund of Los Angeles has made available scholarship assistance for worthy and needy women students from the metropolitan Los Angeles area.

The Charles Harvey Rodi Memorial Scholarship: A scholarship of \$1250 established by Mrs. Lucina Rodi Updegraff, is available annually to a man studying toward a career in medicine. The award is made on the basis of ability and need, and may be available to the same student for more than one year, at the discretion of the Committee on Financial Aid.

The Alice M. Sanborn Scholarship: A scholarship of \$500 annually, endowed by the late Alice M. Sanborn, is available to a man selected by the Committee on Financial Aid as a representative student at the college. The candidate shall be selected at the beginning of his Junior year, and shall receive the scholarship for both his Junior and Senior years, provided he remains worthy of continued assistance.

The Paul E. Schwab Scholarship: A scholarship of \$180 a year, to be awarded to a Junior or Senior of high scholastic attainment, good citizenship, and need for assistance, who is planning a career in law or science, has been established by Paul E. Schwab, '17.

The Shatto Memorial Scholarship: A scholarship of \$250 is provided annually from the income of the Walter O. Shatto and Clara R. Shatto Memorial Fund for a qualified upperclassman or graduate student majoring in the Department of Astronomy, the candidate to be selected on the joint recommendation of the department and the Committee on Financial Aid.

The James Shultz Scholarship: A fund of \$63,133, established by the late James Shultz of Fresno, provides income for scholarship awards to students in any class.

The Olivia Phelps Stokes Scholarships: A scholarship fund of \$47,000 provides income which is available to worthy students at Pomona College.

The Henry E. Storrs and Julia A. Storrs Scholarships: A fund of \$25,000 provides income for scholarship awards to men students.

The William W. Stout Scholarships: A fund of \$189,000 has been established from the estate of the late William W. Stout, the income from which is available for scholarship awards to worthy students in any class.

The Richard E. Strehle Memorial Scholarship: A scholarship of \$395 established in memory of Richard E. Strehle, '41, who was killed in action in the Philippines in World War II, is awarded annually to a Junior or Senior man with the physical, mental and moral qualities desirable in a field geologist. Choice is made near the end of the Sophomore or Junior year, on nomination by the Geology Department to the Committee on Financial Aid. The award may be withheld in any year, and additional awards may be made in years when extra income is available.

Andrew Acker Sugg Memorial Scholarship: A scholarship of \$1,100 available annually to a Junior or Senior man who shows promise of outstanding work in the field of science has been established by Mrs. Andrew Acker Sugg in memory of her husband.

The Hannah Tempest Scholarships: Two scholarships of \$125 each are awarded annually to a man and a woman studying art, in accordance with conditions laid down by the donor, Mrs. Hannah Tempest Jenkins.

The Texaco Scholarships: Texaco, Inc., has established scholarships at Pomona College for upperclass men students taking courses which will prepare them for a career in the petroleum industry. Applicants must be United States citizens, with qualities of scholarship and leadership, and must show financial need. A grant is also made to the College budget to help defray the full cost of instruction.

The Union Tribune Charities Scholarships: The Union Tribune Publishing Company of San Diego has established one scholarship of \$200 in each of the four classes. A student receiving one of these scholarships for one year may continue to be a candidate for them in another school year. Preference will be given to students interested in journalism who come from San Diego County, but scholarships are open to all students.

The United California Bank Scholarship: The California Bank has established a two-year scholarship at Pomona College to assist in his Junior and Senior years a deserving young man from Southern California who plans to follow a business career after graduation. The recipient will receive \$500 in his Junior year and \$500 in his Senior year toward the cost of tuition.

The John B. Ward Memorial Music Scholarships: A fund has been established by Mr. and Mrs. O. M. Ward in memory of their son, John B. Ward, '48, the income from which is available to students who need scholarship assistance for Applied Music. In the event that there ceases to be a need for Applied Music grants, the income from the fund is to be used for general scholarship aid to music students.

The Willard E. and Henrietta P. Thompson Endowment Fund of \$56,287, provides income from which one or more departments of the college may employ students for clerical or other work. Only those students who need financial assistance are eligible.

LOAN FUNDS

The College also administers loan funds for matriculated students by which it is possible to cooperate with the urgent need of students in making available to them amounts to apply on college bills. Interest at the rate of 3% per annum begins on graduation or at the time of leaving the College. No loans are available for Freshman students. Applications for loans should be addressed to the Committee on Financial Aid.

SPECIAL LOAN FUNDS

The Associated Women Students Loan Fund, administered by the Dean of Women at the request of the Associated Women Students, makes available for women students short term loans for personal emergencies. It is not normally used for loans to meet college bills. Interest at the rate of 4% begins after a period of two years.

The Associated Men Students Loan Fund, established in 1931, is available for loans in small amounts to meet personal emergencies or short-term personal needs of Pomona men. It is not intended to be used to pay college bills. For a special need a loan may be issued on a long-term basis. The interest rate is 4%. The fund is administered by the Dean of Men at the request of the Associated Men Students.

STUDENT EMPLOYMENT

The College endeavors to find employment for students needing to earn part of their expenses. Many are thus helping themselves by various forms of labor such as clerical work, baby sitting, janitor work, waiting on tables, general house work, and gardening.

Aid in securing employment can be obtained at the Placement Office in Sumner Hall.

FELLOWSHIPS AND SCHOLARSHIPS
FOR GRADUATE WORK

The following awards may be made for 1963-64 to graduating Seniors if qualified applicants appear. Applications for these fellowships should be in the hands of the Committee on Financial Aid by April 1, 1963, except in the case of the Harsh Fellowship, application for which should be made to the Claremont Graduate School.

The Henry Martyn Bracken Foundation and the *Emily Robinson Bracken Foundation* provide two or more fellowships for graduate work in the Claremont Graduate School. When in any year a graduating Senior does not

qualify for the award, the stipend may be given to an undergraduate student in Pomona College.

The C. E. and Bertha M. Harsh Memorial Scholarship Fund in the Claremont Graduate School provides income for scholarship aid to Pomona College graduates. Although the Board of Fellows is empowered to make grants of the income for the assistance of any capable and promising graduates of Pomona College attending the Claremont Graduate School, it is the preference of the donors that first consideration should be given to those who are doing advanced work in the Fine Arts.

The William Lincoln Honnold Foundation provides a fellowship with a stipend determined by the committee of award according to individual circumstances. The award is open normally only to graduating Seniors who have done four full years of work in Pomona College, who are rated in the upper half of the graduating class on the basis of their performance during both the Junior and Senior years, and who wish to continue their studies either in the Claremont Graduate School or elsewhere in America or abroad.

The prime purpose of the fellowship is to promote original and creative achievement in the candidate's chosen field of activity rather than merely to reward faithful classroom work. Preference will be given to candidates preparing for scholarly rather than professional work. The selection will be based not on scholarship only but on the possession of those personal qualities which indicate a high degree of promise in a student of outstanding character. The plans for graduate work are to be made in consultation between the candidate and the Committee on Financial Aid, the committee having final authority.

University of Chicago Law School Scholarship: A scholarship in the School of Law at the University of Chicago will be awarded by the Pomona College Committee on Financial Aid. Stipend is normally \$720 and is renewable for two years if the student's record is satisfactory.

University of Chicago School of Business Honor Scholarship: A scholarship in the School of Business at the University of Chicago is available to a graduating Senior on recommendation by the Committee on Financial Aid. Stipend provides full tuition for one year and is renewable for a second year if satisfactory performance is maintained.

The Committee on Financial Aid also nominates students of Pomona College who wish to apply for certain awards by other institutions and foundations.

CLAREMONT GRADUATE SCHOOL FELLOWSHIPS

In addition to the awards for graduating Seniors offered through Pomona College, scholarships for graduate study leading to advanced degrees are available at the Claremont Graduate School.

General scholarships and fellowships ranging in value from \$800 to \$2,500 are awarded for graduate work in the field of the candidate's choice. Endowed and special gift scholarships are also available. National Defense Fellowships are currently held by graduate students in Economics, English and American Literature, Government, Philosophy, Psychology, Religion, and through the Intercollegiate Program of Graduate Studies in History and Government. A few graduate assistantships with half tuition in the Claremont Graduate School are offered through the undergraduate colleges at Claremont and the Rancho Santa Ana Botanic Garden.

IBM RESEARCH ASSISTANTSHIPS IN THE WESTERN DATA
PROCESSING CENTER

Pomona College is a participant in the Western Data Processing Center at the University of California at Los Angeles. Graduate students or prospective graduate students may apply for an IBM Research Assistantship, given through the Center, which consists of a half-time appointment on this campus for work in the general area of business data processing, high-speed digital computer applications or other pertinent fields. Consult Dr. Lorne D. Cook, WDPC Representative on this campus, for further information.

ACADEMIC DISTINCTIONS

POMONA COLLEGE offers a number of academic distinctions, awards, and prizes to its students. These are given on the basis of academic excellence, and unlike the scholarships, listed on pages 44 to 53, are awarded without reference to financial need.

POMONA COLLEGE SCHOLARS

Students who have achieved an academic average of 10.8 in any one year are elected Pomona College Scholars for that year. This is the highest academic award which the college confers on its students.

PHI BETA KAPPA

The Pomona Chapter of Phi Beta Kappa, established in 1914, is the Gamma of California. Seniors "who are of good moral character, who are candidates for the degree of Bachelor of Arts, and who are distinguished for breadth of culture and excellence of scholarship" are eligible to membership in the Phi Beta Kappa Society.

PRIZES AND AWARDS

The following prizes and awards are available for general accomplishments and for proficiency in the work of the several departments:

The Rena Gurley Archibald High Scholarship Prize: A prize of \$50 to be awarded to that member of the graduating class ranking highest in scholarship was established by the bequest of the late Reverend Andrew W. Archibald, D.D.

The Mary Ford Bacon Memorial Prizes: Three prizes of \$100 each for the best essays or monographs relating to the Constitution of the United States are awarded annually by the Departments of History, Government, and Economics. The three contests are conducted separately under special rules made by the faculty of each department. Entries are judged with due regard for effectiveness of style, originality of thought and depth of insight into the spirit and operation of the American constitutional system. The Mary Ford Bacon Memorial Fund also provides a sum of money for the purchase of books and other materials on the Constitution recommended by the faculty in history, government, and economics.

The Arvid Pierre Zetterberg Award: From a fund endowed by Mr. and Mrs. A. P. Zetterberg in memory of their son, Lt. Arvid Pierre Zetterberg, an annual award of \$50 is made to the Sophomore man who during his Freshman year exemplifies the highest qualities of character, scholarship, and interest in manly sports. The award is made on nomination of the Com-

mittee on Financial Aid and is presented at the Opening Convocation in September.

ART

The Drew Art Prize Fund: A fund of \$1000 established by Miss Mary Drew provides income for prizes to be awarded to beginning art students for progress in creative graphic expression.

The Rembrandt Club Art Prizes: A number of prizes, totaling \$75, are awarded by the Rembrandt Club in the form of books for excellence in drawing, design, painting, sculpture, and art history.

ASTRONOMY

The Moncrieff Astronomy Prizes: Prizes given to students in the first year course in astronomy, taken regularly in class, whose interest in the study and proficiency in the observatory work are indicated by the best notebooks kept in accordance with the teacher's suggestion. Prizes totaling \$50 are endowed by Miss Flossie C. Moncrieff, '11.

BIOLOGY

The Vaile Prize: A prize of \$25 to be awarded to an outstanding student in botany or zoology was endowed by the late Mr. Charles S. Vaile.

CHEMISTRY

The Stanley D. Wilson Prize: A prize of \$50 endowed by Dr. Stanley D. Wilson is awarded annually to the student whose independent study in research shows greatest promise for creative work.

CHEMISTRY-GEOLOGY

The James A. Lyman Prize: A prize of \$100 is awarded to a Senior student majoring in chemistry or geology who, in the opinion of the chemistry-geology faculty, shows special promise of achievement in research or teaching, or both. Established in memory of Dr. James A. Lyman, Professor of Chemistry 1909-1926, by his son, Dr. George P. Lyman, '26.

ECONOMICS

The Morris B. Pendleton Prizes: One or more prizes of \$100, made possible by the Morris B. Pendleton Fund, are awarded annually to Seniors who have distinguished themselves by their work in economics.

EDUCATION

The Ada May Fitts Education Prize: A prize of \$50 endowed by Mr. Charles T. Fitts in memory of his wife, Ada May Fitts, is awarded annually to a

student for excellence in courses in Education and for unusual promise in the educational field.

ENGLISH

The John Dye Award: From a fund established by Mr. and Mrs. John Thomas Dye in memory of their son, John Thomas Dye III, who was a Lieutenant in the Army Air Corps, is offered an annual award of \$100 for the best piece of original writing to appear in a student publication. The award is announced at Commencement time.

The F. S. Jennings Memorial Prizes: Four prizes of \$75 each in the first semester, and three prizes of \$75 each in the second semester for excellence in English are available to members of the Freshman class taking English 1 or 2. In the award of these prizes attention is given to the interest shown by the student in improving the quality of his written and spoken English.

A prize of \$100 is available each year for a distinguished Senior Thesis written by a student concentrating in English Literature.

GOVERNMENT

The Edward M. Sait Prize: A prize of \$5 for the purchase of a book relating to American or comparative government, or for a membership in the American Political Science Association, is awarded to the student doing the best work in the basic course in government.

The Russell M. Story Prize: A prize of \$5 for the purchase of an appropriate book, or for a student membership in the American Society for Public Administration, is awarded to the student doing the best work in the course in public administration or in state and local government.

The George S. Burgess Prize: A prize of \$5 for the purchase of an appropriate book, or for a subscription to a selected law review is awarded to the student doing the best work in constitutional law and jurisprudence.

LATIN

The Mudge Latin Prizes: First and second prizes of \$10 and \$5, respectively, for excellence in Latin are endowed by friends of the College.

LIBRARY

The Eda May Haskell Library Prize: A prize of \$50 is offered for the best library submitted by a Senior student, not necessarily for the largest or most expensive collection but for the most intelligently selected books in one or more fields of the student's interest.

MATHEMATICS

The Llewellyn Bixby Mathematics Prize: A prize of \$25 is awarded annually to a Sophomore for excellence in his second year of mathematics.

The Jaeger Mathematics Prize: A prize of \$25 to be awarded annually to a Freshman in a beginning mathematics course is endowed by Chester G. and Elfrieda A. Jaeger.

MUSIC

The Barbara Sanford Allen Prize: An annual competitive prize of \$50 to be awarded to a student in the Department of Music, above Freshman rank. This award is made possible by the husband and parents of a graduate of the Class of 1915 of Pomona College.

PHYSICS

The Tileston Physics Prizes: Two prizes have been established in memory of Professor Roland R. Tileston by former students and by members of his family: a prize of \$10 to the outstanding Freshman or Sophomore student in the Physics 1 course; a prize of \$50 to the Junior student in physics whose record in the course and department work is judged most promising.

PUBLIC SPEAKING

The Kinney Prizes: Awarded to the three students who, in their first year of intercollegiate competition in Oral Interpretation, make the most distinguished records of contest success. First, second, and third prizes of \$25, \$20, and \$15, respectively, will be awarded by the college chapter of Delta Sigma Rho, on recommendation of the Director of Forensics. The prizes were endowed by the late Mrs. H. N. Kinney.

The Dole Debate Prizes: Awarded to the two lower division debate teams who, in the opinion of the Director of Forensics, have shown the greatest promise in intercollegiate competition during the year. First and second prizes of \$30 and \$20, respectively, will be awarded. The prizes, established by the late Mr. John H. Dole in memory of his brother, Mr. William B. Dole, were endowed by Mr. Arthur M. Dole, '96.

The Stella King Prizes: Awarded, in the form of initiation fees and keys, to those who have demonstrated outstanding and versatile performance in debate and individual speaking events to warrant their election to the national honorary forensic fraternity, Delta Sigma Rho. Juniors and Seniors who have been active for at least one year in intercollegiate forensics are eligible for election to Delta Sigma Rho, and therefore, for the King Prizes. These prizes were endowed by the late S. H. Wheeler, in memory of Miss Stella King.

RELIGION

The Hager Prize: A prize of \$25 for the best essay on a foreign missionary subject, open to all students, was endowed by the late Mr. and Mrs. C. R. Hager.

The W. Robert Rankin Prize: A prize of \$100 for the best essay on any theme or topic in Christian life and thought, open to all students, is given by an anonymous donor in honor of the former Chaplain of The Claremont Colleges.

GENERAL INFORMATION

LIBRARY

POMONA COLLEGE shares with the other colleges in Claremont the facilities of the central Honnold Library, which together with the several branch libraries houses 319,000 volumes, 242,000 bound and unbound Government documents, 33,500 volumes in microtext, and several collections of rare books and pamphlets. Total Pomona holdings in the Honnold Library and in branch libraries number 166,000 volumes and include approximately 16,000 art prints, slides and photographs, 3,000 sound recordings, and 5,000 maps.

The Honnold Library currently receives 2,923 periodicals and 62 newspapers.

The following Pomona College special collections are a part of the general library administered by the Honnold Staff: the Cook-Baker Biological Library and the Parish Botany Library in Crookshank Hall, and the Rancho Santa Ana Botanic Garden Building; the James A. Lyman Memorial Library of Chemistry in Mason Hall; the Mathematics, Physics, and Astronomy Library in the new Robert A. Millikan Laboratory; and the Geology and Zoology Libraries in the new Seaver Laboratory. Special Pomona Collections housed in the Honnold Building are the Mason California, the Wagner North Pacific, the McCormick Korean Libraries, and the Carnegie and Viola Minor Westergaard Art Collections.

In addition to the Pomona College Library, the Honnold Library also houses the libraries of the Claremont Graduate School, Claremont Men's College, Harvey Mudd College, and a part of the library of Scripps College. The main Scripps College Library is housed in the Ella Strong Denison Library on the Scripps campus.

PUBLICATIONS

The stated publications of the College are issued as numbers of the *Pomona College Bulletin*, which is published six times a year. These include: the *Annual Catalog*, the *Report of the President*, and the *News Letter* for Alumni.

LECTURE FOUNDATIONS

The Joseph H. Johnson Foundation, endowed by Miss Ellen B. Scripps, provides an annual income for the purpose of bringing distinguished

lecturers to Pomona for a protracted stay and intimate participation in college life.

The Clark Foundation, established by Mr. Arthur O. Clark, makes it possible for the College to offer each year a lecture or course of lectures in the general field of religion.

The Henry D. Porter Foundation, named in honor of the late Rev. Henry D. Porter, for many years a missionary in China, provides for a lecture by some prominent worker in the field of Christian Missions.

The Fred J. Robbins Lectureship, named in honor of its donor, enables the College to bring to the campus at appropriate periods an outstanding scholar in the field of chemistry.

PUBLIC ASSEMBLIES

A general assembly of the college is held each Tuesday at 11 a.m. for the purpose of hearing visiting lecturers or members of the faculty discuss topics of interest to the whole institution. This assembly period is also used for student body and class meetings.

On five stated occasions during the year, including the opening of each semester, a College Convocation is held. Full attendance of both faculty and students is expected at these exercises.

RELIGIOUS ACTIVITIES

The Claremont Colleges unite in a College Church which holds its services each Sunday morning at eleven o'clock in Bridges Hall of Music. The Church is the coordinating force for religious activities among the colleges. Students participate in the services and there is a special student choir.

The Pomona College Chapel, which is a service of worship, is held every Thursday morning from 11:00 to 11:25 in Bridges Hall of Music. Both students and faculty participate in the service, at which attendance is voluntary.

Various expressions of religious interest and forms of religious activity exist on the Pomona campus: worship, study and discussion groups, campus and community programs of service, and contacts with inter-collegiate enterprises. These interests and their sponsoring organizations are centered in the College Church as a campus-wide agency to encourage interest in religion and to develop religious activities. The College

Church maintains relationships with the national Student Christian Movement and the World Student Christian Federation.

MUSIC

The College cooperates with Scripps College, Claremont Men's College, Harvey Mudd College, and the Claremont Graduate School in the presentation in Bridges Auditorium of the most distinguished masters in the field of music. Regularly included in the series is the Los Angeles Philharmonic Orchestra. For these concerts an annual ticket is furnished without extra charge to each full-time student.

Under the auspices of the Pomona College Department of Music, public recitals by individual students and members of the faculty and by groups are given frequently throughout the year.

The Geiger Fund, established by the late Hector Geiger of Los Angeles in memory of his wife, Elizabeth McLeod Geiger, enables the College to bring distinguished musicians to the campus to enhance the offerings of the Department of Music.

The Pomona College Symphony Orchestra, the Choir, the Men's and Women's Glee Clubs, the Band, and chamber music groups, afford opportunity for the study and public performance of the finest in ensemble music.

CAMPUS ORGANIZATIONS

The Associated Students: This association, whose officers are elected by the student body, coordinates all student activities. It is headed by an Executive Board, composed of the President of the Associated Students and five elected Commissioners: Social Affairs, Financial Affairs, Educational Policy, Athletic Affairs, and Communication. The men and women students each have separate organizations to promote their respective interests, and each of the four classes is organized for class social life.

Honor Societies: Ghosts, for men; Mortar Board, for women.

Honorary Fraternities: Gamma Chapter of Alpha Kappa Delta, sociology fraternity; California Alpha Chapter of Kappa Mu Epsilon, national honorary mathematical fraternity; Delta Sigma Rho, national honorary forensic fraternity; Delta Phi Alpha, local chapter of the national honorary German society; Psi Chi, honorary psychology fraternity; Sigma Delta Pi, Spanish national honor society.

Local Social Fraternities: From the early days of the college, Pomona has sponsored a system of local fraternities. Currently there are seven such fraternities on the campus: Alpha Gamma Sigma, Kappa Delta, Kappa Theta Epsilon, Nu Alpha Phi, Phi Delta, Sigma Tau, and Zeta Chi Sigma. The college provides a club room for each fraternity in the residence halls on the men's campus. Fraternity members live in the residence halls and take their meals in the college dining halls. The fraternities pledge new members during the Sophomore year. There are no sororities.

Departmental Organizations: El Circulo Español, Le Cercle Francais, Deutscher Verein, American Chemical Society, Caducean Society, Economics Club, Classics Club, International Relations Colloquium, Psychology Club.

Dramatic Organizations: Drama Productions, Masquers and Thespians, in dramatics; Orchesis, in dancing.

KSPC: A 1000 watt FM radio station owned by Pomona College and operated by Pomona students, covering the entire Los Angeles basin, provides radio experience for interested students.

Other Organizations: World Affairs Board of The Claremont Colleges, Cosmopolitan Club, Camera Club, Ski Club, Women's Recreational Association.

STUDENT PUBLICATIONS

The Student Life, the weekly newspaper, which was established in 1889, is the oldest college newspaper in Southern California.

Other student publications are: the *Metate*, the yearbook; *Poor Cecil's Almanack*, a handbook, which contains material designed especially for new students; and *MSS*, a literary magazine.

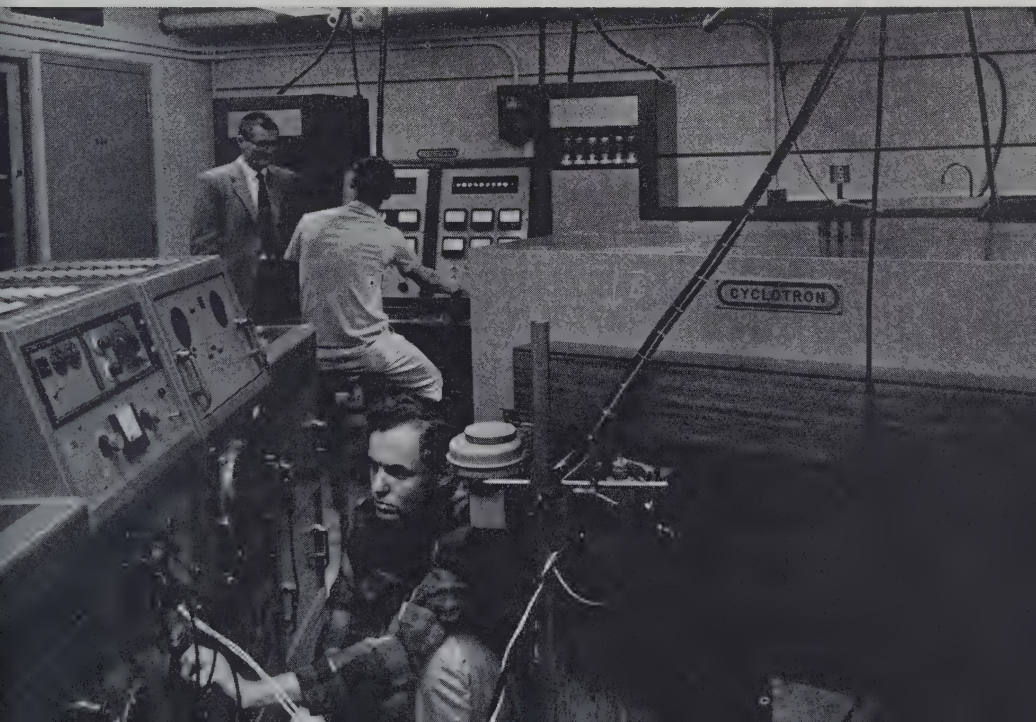
FACULTY-STUDENT COMMITTEES

Pomona College assumes that most of the matters which affect the College are of concern to both faculty and students and believes that the experience and the judgment of both should be taken into account in the management of much of the college life. For this reason a large number of the policy forming committees of the college have both faculty and students as voting members. These committees now include the following: Admissions, Athletic Council, College Council, Public Events, Radio Station, Religious Activities, and Student Advising.



Class in Literature

The Equipment of Millikan Laboratory Includes a 23-inch Cyclotron





*ROTC Cadets of Pomona-Claremont Voluntary Unit Depart
for Fort Irwin Field Trip*

Pomona Has a Varied Program of Intercollegiate and Intramural Sports



CONDUCT

Pomona College assumes that its students, having voluntarily enrolled, are in sympathy with its purposes and philosophy, and will abide by its accepted practices. This basic philosophy is that all members of the college community will govern their conduct by standards of good taste and ethical judgment, and will exercise their responsibility as members of the community when these standards are disregarded by others. Any behavior on or off the campus which may bring discredit to the individual or to the College may result in disciplinary action. The use or possession of alcoholic beverages of any kind on the campus is prohibited by the College.

Students are held responsible for the AMS and AWS residence rules. The faculty has placed the interpretation and execution of these policies in the hands of the Committee on Student Affairs, which consists of the deans and certain faculty members appointed by the President.

The Student Affairs Committee joins with eight students elected by the student body to form the College Council. Since 1959 the College Council has been delegated the responsibility for dealing with inter-class rivalry and class shows, and for the administration of discipline, except for cases involving fraternities and infringements of academic honesty and honor. The College Council also makes general policy concerning social affairs of students on the campus.

The Judiciary Councils of the Associated Women Students and the Associated Men Students administer regulations concerning conduct in the residence halls on their respective campuses, and, acting together as a joint body, carry out the policies of the College Council and act as a court or advisory body in matters of discipline, except in those considered by the deans to involve serious problems of personality adjustment. The Judiciary Councils are empowered by the College Council to take disciplinary action up to and including expulsion in cases of misconduct. Any member of the Judiciary or any defendant in a judiciary case may appeal any judiciary decision to the College Council. Any judicial action resulting in expulsion must be reviewed by the College Council.

Individual or collective student enterprises which use the college name and involve the absence of the participants from the college must receive the official sanction of the Committee on Student Affairs.

The College reserves the right to require the withdrawal of any student whose conduct is considered by the Student Affairs Committee to be detrimental to the best interests of the college.

AUTOMOBILES AND MOTORCYCLES

Rules governing student use of motor vehicles are determined and administered by The Claremont Colleges. Students maintaining motor vehicles in Claremont are subject to the following regulations:

Registration and liability: Ownership of the car, together with its license number, must be registered with the Campus Security Office during college registration at the opening of each semester or within three days after the car is driven in Claremont. The student is responsible for displaying on the bumper of his automobile The Claremont Colleges sticker affixed at the time of registering the car. At that time the student must also furnish evidence of having liability insurance. For temporary use of two weeks or less the student is obligated to secure a temporary permit from the Campus Security Office within three days after the car is driven in Claremont, or he will be subject to penalty. In this instance no fee is charged.

A student's car is assigned to a particular campus parking lot at the time of registration, and it may not be parked without penalty on public or private streets in the campus area or other parking lots of the colleges from 2:00 a.m. to 5:00 p.m. Likewise the student residing off campus may use only the parking lot to which his car is assigned. Campus curb parking is reserved for visitors and maintenance vehicles during the day.

The student receives when registering the vehicle a booklet of information and regulations for which he is responsible. A driver must at all times, both on and off the campus, exercise particular care and consideration for the safety of himself and others, and must acquaint himself with the state and local traffic laws and comply with their observance.

No campus resident student may use or park a motorcycle, motor bicycle, or motor scooter anywhere on the campuses, grounds or streets of The Claremont Colleges. A student may drive or keep a motorcycle outside of college limits provided he does not bring it on any part of the campuses.

An off-campus resident who needs a motorcycle or a motor scooter for commuting purposes may secure a special permit and driving instructions from the Campus Security Office. This permit is solely for commuting to the campus, not for driving about the campuses or college streets. The fee for motorcycle, motor scooter, and motor bicycle registration is the same as for an off-campus student's car permit.

Failure to comply with the regulations stated above and in the booklet of information issued to the student when he registers his vehicle shall constitute an offense against the college. The penalty for violation of motor vehicle regulations of The Claremont Colleges may include fines, temporary sequestration and storage of the vehicle at the student's risk and expense, loss of campus driving privileges, or suspension from college. Regulations are systematically enforced.

A heavy fine is assessed for failure to register a motor vehicle within the time limit stated above or for failure to display the authorized registration sticker on the bumper.

Vehicle Registration Fees: A campus-resident student who keeps a car on campus will be charged a fee of \$10 a semester. A student residing off campus and using a motor vehicle on campus will be charged a fee of \$5 a semester.

The Campus Security Office is in the Buildings and Grounds area, at the south end of the college campus on First Street.

BICYCLES

All students of The Claremont Colleges bringing bicycles to the campus are required to register them during the beginning of the College year at a time to be announced, or within 72 hours of bringing the bicycle onto the campus. This registration, for which there is a fee of 50¢, meets the requirement of the City of Claremont for bicycle registration. A fine of \$2 (payable to The Claremont Colleges at the Business Office) will be charged for failure to register within the specified period. Students should report missing bicycles immediately to the Campus Security Office.

HEALTH SERVICE

The Claremont Colleges maintain an Infirmary and Health Service with two full-time physicians and several nurses in attendance. The medical advice of the College Physician is ordinarily available, free of charge, to all students in the colleges, although certain reasonable limitations in connection with hours and location of calls are in force. Surgical dressings and medicine, medical service in chronic or prolonged illnesses, and medical service for accidents or acute illnesses which require more than ordinary first-aid emergency treatment involve extra fees to be paid by the students. Fees for specialists, consultants, or special nurses are also met by the student. In any illness the student is entirely free to choose his own physician on a private fee basis. The

student is entitled to ten days each year at the College Infirmary without charge for room or meals. If illness requires hospitalization for additional days, the charge is \$7.50 per day. (The College reserves the right to discontinue any part, or all, of this individual medical service at any time without previous notice.)

The College does not assume responsibility for the complete medical care of its students, but only insofar as its present facilities will afford. Preventive medicine and campus health functions are stressed in the college medical program.

All full time students are eligible for accident and health benefits under an insurance plan arranged by the college. Detailed information about this insurance is mailed to each student. Information is also available from the College Medical Office.

MEDICAL REQUIREMENTS

The medical certificate required of all applicants prior to admission includes a physical examination, recent successful smallpox vaccination, a satisfactory tuberculin test, or an x-ray of the chest, performed within the preceding six months, and active immunization against tetanus.

Each academic year a student in residence he is required to complete a tuberculin skin test or a chest x-ray by November 1. During the registration period, skin tests will be given by the health service staff to previously negative reactors. All positive reactors must be x-rayed yearly. Failure to meet this requirement will result in the suspension of privileges of registration and class attendance until the requirement has been met.

ATHLETICS

Pomona College conducts a program of intercollegiate athletics as a member of the Southern California Intercollegiate Athletic Conference and the NCAA. Our teams, known as the "Sagehens," compete in football, basketball, track and field, baseball, cross country, waterpolo, swimming, wrestling, golf, and tennis. Varsity and Freshman teams are maintained in all sports except golf and wrestling, which are represented by a Varsity team only.

A joint program of sports clubs is conducted with other members of The Claremont Colleges in such activities as soccer, rugby, sailing, and skiing. Schedules are arranged for these club teams with other nearby

clubs and colleges, but not exclusively within the Southern California Intercollegiate Athletic Conference.

In addition to the program of intercollegiate sports and the joint program of club teams, Pomona College maintains an extensive program of intra-mural sports open to all men students.

The direction and financial management of athletics rest with the Director of Athletics. There is a faculty Committee on Athletics, and the Director is advised by the Athletic Council, which is composed of three members of the faculty, three members of the student body, and two members of the Alumni Council.

The college endeavors to safeguard students in the use of its physical education facilities, athletic fields, and gymnasiums, and to this end the department has established regulations concerning the use of such facilities, but it is clearly understood that students who use the same do so entirely at their own risk.

THE CLAREMONT COLLEGES COUNSELING CENTER

The Claremont Colleges maintain a Counseling Center under the direction of a Clinical Psychologist. The Director of the Center works in conjunction with the college physicians and the college psychiatrist. The Center offers instruction in reading and in study techniques, vocational testing, and consultation and counseling on personal and emotional problems. Most of the services are open to Pomona students without charge, including one consultation with the psychiatrist. The cost of any additional consultations with the psychiatrist must be met by the student, and a nominal fee may be charged for extensive counseling from the psychologist.

VOCATIONAL COUNSELING AND PLACEMENT

Through faculty advisers and the personnel services of the college, students receive assistance in their choice of a career. The college maintains a vocational placement service for the benefit of alumni and students. Many alumni cooperate with the Director of the Placement Service in assisting seniors and graduates to find employment and to provide reliable occupational information concerning representative business organizations, government agencies, the professions, and other opportunities for employment.

Each year conferences on careers for men and women are held on campus

under the sponsorship of the academic departments and the faculty and student committees on vocational services.

STUDENT EXCHANGE PROGRAMS

Under arrangements which are made each year, two or three Pomona students of Junior standing are selected from interested applicants to spend a semester at Fisk University, Nashville, Tennessee. The program operates on an exchange basis, and an equal number of Fisk students come to Pomona for a semester's experience. Interested Pomona students should make application to the Fisk Exchange Committee at a time which will be announced by the Chairman of the Committee.

In 1961-62 an exchange program with Swarthmore College was inaugurated. The program, open to upperclassmen, is conducted by the Student Academic Committee in cooperation with the Faculty Committee on Study Abroad. Interested students should ask for further information from the Chairman of the Student Academic Committee.

GRADUATE WORK IN THE CLAREMONT GRADUATE SCHOOL

Graduate work leading to the Master of Arts degree is offered in several fields including Asian studies, botany, economics, education, English and American literature, foreign languages, government, history, mathematics, music, philosophy, psychology, and religion. The master of Fine Arts degree is given on a two-year program in applied arts.

In connection with the Russell M. Story Program in Business and Public Affairs the degrees of Master of Business Economics and Master of International Studies are given.

The Doctor of Philosophy degree may be taken in Asian studies, botany, economics, government, education, English and American literature, history, international relations, philosophy, psychology, and religion.

The Claremont Graduate School is authorized to recommend candidates to the California State Department of Education for the following public school teaching credentials: general elementary, general secondary, junior college, and special secondary for art. Work is also offered leading to administrative credentials and to the pupil personnel services credential.

The annual bulletin may be obtained from the Admissions Secretary, Harper Hall, Claremont, California.

INTERCOLLEGIATE PROGRAM

Under a grant from the Fund for the Advancement of Education of the Ford Foundation, The Claremont Colleges are cooperating with Occidental College, the University of Redlands and Whittier College in the Intercollegiate Program of Graduate Studies designed to prepare college teachers of comparative literature, English and American literature, economics and government, and history. Those interested in this program should consult the Dean of the Claremont Graduate School.

GRADUATE RECORD EXAMINATION

Many graduate or professional schools require or request that applicants for admission, as well as for fellowships and scholarships, take the Graduate Record Examination administered by Educational Testing Services, the national academic testing organization. Students who wish to receive information concerning the dates on which the examination is given are advised to write early in their senior year directly to the Educational Testing Service, 4640 Hollywood Blvd., Los Angeles 27, Calif.

SUMMER SESSION

The Claremont Summer Session is sponsored jointly by Pomona College, Scripps College, Claremont Men's College, Harvey Mudd College, and the Claremont Graduate School. It is organized in a term of six to eight weeks, and offers a full program of undergraduate and graduate courses. A bulletin describing summer work is published annually in February and copies may be obtained from the Summer Session Office, Harper Hall, Claremont, California.

STUDY ABROAD

In cooperation with The Experiment in International Living, Pomona College offers selected students an opportunity to spend a semester in residence in a foreign country in a program of independent study. Opportunity is provided for the students on this program to spend the first weeks of the semester living with a family. To be eligible for the Pomona Semester Abroad students must have the personal qualifications for living with a foreign family and the ability to study for several months without immediate supervision. Although arrangements may be made for attending lectures in foreign universities, the academic program consists chiefly of independent study planned with the assistance of a member of the Pomona College Faculty.

A student may receive credit for as many as three courses on the program. The requirements of the courses, including essays and final examinations, are set by the departments (chiefly in the social sciences and the humanities) which offer plans for the Pomona Semester Abroad.

The Semester Abroad is planned principally for the first semester of the Junior or the Senior year, but a few applications will be considered for the second semester of the Junior year.

Applicants for the Pomona Semester Abroad program must meet departmental requirements and are screened both by a faculty committee and by representatives of the Experiment. In the first semester of 1962-63, twenty-two students will live and study in nine foreign countries on the Pomona Semester Abroad program.

Students may also apply for permission to study abroad in the Junior year either by enrolling in one of the programs of foreign study conducted by American colleges and universities or by planning, and securing approval in advance of, an individual program of study at a foreign university. Further information about the Pomona Semester Abroad and about the regulations on other plans for study abroad in the Junior year may be secured from Mr. J. Edward Sanders, Dean of Students, who is Chairman of the Committee on Study Abroad.

Not all students find study abroad in their undergraduate years a profitable experience. A student interested in the possibility of study abroad should discuss the question carefully with his adviser, and he should give serious consideration to the relevance of this study to his educational objectives and his plans following graduation.

PROFESSIONAL PREPARATION

ALTHOUGH THE liberal arts program at Pomona aims at a broad and fundamental education rather than specialized vocational training, the regular work of the college prepares students for direct entry into many vocations as well as for specialized work in graduate and professional schools.

National corporations each year employ thousands of college graduates and train them for executive positions. Preference may be given to Seniors who have majored in economics, government, or science, but many employers consider the field of study less important than character, maturity, and intellectual ability demonstrated by successful college work. Many women with a Pomona degree hold responsible positions in business and the professions.

Positions as industrial chemists, physicists, and geologists, as well as Federal and State Civil Service positions, are available to Pomona graduates without further study. Majors in mathematics are in demand by both business and industry. English majors may go into advertising, public relations, journalism, or publishing. Graduates in botany often find positions with the Forest Service or the National Park Service. In many counties of California, sociology majors can go directly into social work with the B.A. degree. Graduates who have concentrated in the social sciences are eligible to take competitive examinations for a variety of civil service positions, such as Junior Management Assistant, and other federal or state offices. Pomona graduates interested in careers in the Foreign Service are eligible to take the examinations given by the State Department, which is at present conducting a recruitment program.

Since more than half of Pomona's graduates go on to professional schools, most departments of the college prepare students for advanced work in graduate school. Some of the opportunities for preparation for professional study are listed below.

AGRICULTURE, FORESTRY AND LANDSCAPE ARCHITECTURE

A strong program in the natural sciences is the best preparation for agriculture or forestry and, coupled with an equivalent program in art, for landscape architecture. Courses which prepare for advanced study in these fields are available at Pomona College. A complete list of recommended courses in all three may be obtained from the Department of Botany.

Ordinarily preparation in agriculture, forestry, or landscape architecture involves a full four-year course of background material together with a broad general education. This is followed by a year in a graduate or technical school bridging the gap between pure science and its application. Such a program prepares for leadership in the field, rather than a minor position involving only a special application of a segment of the subject. It is designed to develop adaptability to many situations rather than specific preparation for a few.

BUSINESS

The tendency for business executives to come from the social sciences, particularly economics, is growing. Modern management needs to know much besides the particular facts and skills associated with an individual business. A thorough understanding of the economic system and business-government relations, along with the power to communicate accurately and convincingly, is more and more becoming a prerequisite to business success.

Students at Pomona College, planning a career in business, will find a rich offering of courses, including accounting, statistics, money and banking, labor economics, national income, economic theory and business policy, industrial organization and public policy, management accounting, public finance, comparative economic systems, and international trade and finance. During the Senior year, the student may take honors work or supervised study under the direction of a staff member. The program is ideal for the student who plans to attend a graduate school of business, to pursue an advanced degree in economics, or to enter one of the special executive training programs for college graduates.

ECONOMICS—ENGINEERING

This curriculum combines a broad and strong training in the physical sciences with an integrated program of economic and business principles. The student who follows this curriculum will be better prepared to accept with understanding the responsibilities of leadership in the modern industrial organization. The course work may be organized to prepare the student for graduate work in Industrial Management or Business Administration.

The basic Economics-Engineering requirements are: Mathematics 30, 31, 32 or Mathematics 50; Economics 51, 52, 71, 150; and Physics 51 or 61, or Chemistry 1 or 51.

The concentration requirement may be satisfied by taking at least one more upper division course in Mathematics, Economics, and Chemistry

or Physics, with a minimum of three upper division courses (beyond the basic requirements) in one of these fields.

Each student's program will be planned in accordance with his background and interest. A faculty member will advise him which courses in each department can be counted toward the minimum requirements.

ENGINEERING

Students at Pomona College who plan to enter a professional engineering school have an opportunity to obtain an excellent foundation in mathematics and physical science in addition to a well-balanced liberal training. Such students should consult with members of the staff in physical science who are acquainted with engineering graduate school requirements. The special program, described below, has been established, but Pomona graduates are prepared to enter other engineering schools as well.

COMBINED PLAN CALIFORNIA INSTITUTE OF TECHNOLOGY

Qualified students may receive the Bachelor of Arts degree from Pomona and a Bachelor of Science degree from the California Institute of Technology after a combined five-year program, of which the first three years are taken at Pomona. Students under the combined plan will be accepted at the California Institute of Technology without examination if recommended by Pomona.

In satisfying the lower division distribution requirements of Pomona College, the humanities requirements of the Institute should be carefully considered in consultation with the adviser. In addition, the following lower division courses should normally be completed:

Physics 51 or 61

Chemistry 1 or 51

Mathematics 32 or 50

Graphic Science

Satisfaction of the Pomona College concentration requirement in pre-engineering for those students who transfer at the end of the Junior year shall include at least five upper division courses selected from the following list in consultation with the faculty adviser. Starred courses shall normally be included.

Mathematics 110*

Physics 143

Mathematics 120

Physics 145*

Mathematics 160

Physics 151a*, 151b

Physics 101

Physics 195

Physics 141*

Physics 196

Students planning combined programs in fields such as chemical engineering will approximate the above requirement of five courses but with substitution of more suitable courses where deemed advisable after consultation with the faculty adviser.

Those students concentrating in pre-engineering who plan to graduate after four years at Pomona College shall complete eight upper division courses selected from the above list.

LAW

Adequate preparation for the study and practice of law requires the completion of an undergraduate program in the liberal arts leading to the baccalaureate degree. The best law schools do not require any particular undergraduate concentration; they are interested in breadth of background and quality of work. Lawyers and law schools agree that the ability to write and speak with clarity and precision is of paramount importance. A broad foundation in government, economics, and history is essential; accordingly if the student concentrates in one of these, he should be sure to supplement his choice with courses in the other fields. A year of accounting is strongly recommended. Those interested may consult with a member of the Pre-law Committee.

THE MINISTRY

Students planning to prepare themselves for Seminary or Graduate School training, with a view to entering the parish ministry or college teaching in religion, can most profitably fulfill their requirements for concentration in one of the following departments: English, History, Philosophy, Psychology, Religion, or Sociology. Information about specific programs and requirements of theological schools may be secured from the Department of Religion.

Students planning to prepare themselves for Seminary or Divinity School training with a view to entering the field of religious education are advised to concentrate in Religion in their undergraduate studies.

MUSIC

Students concentrating in Music normally find it difficult to determine their specific future vocation while they are in the intermediate stages of mastering the art. Alumni who concentrated in Music are working professionally in the field not only as composers, performers, conductors, and teachers, but also as music librarians, dealers, reviewers, concert managers, instrument specialists, in music reproduction and publishing,

and in other specialties involving music. Some are working in unrelated fields, with music as their avocation. Concentrators should investigate carefully the broad scope of music as a vocation, should seek the advice of competent musicians both on the faculty and outside the College, and should bear in mind that some form of post-graduate training is generally required to qualify for positions in the profession.

PREMEDICAL AND ALLIED FIELDS

Admission to medical school is not dependent on any particular undergraduate concentration program, nor is it guaranteed by graduation from Pomona College. Professional schools set their own standards and admission requirements, but they usually recommend a sound liberal arts education, including certain basic courses in science.

The Medical Sciences Committee of Pomona College, in cooperation with the academic advisers, helps the student plan a program which ensures adequate preparation for the study of medicine and dentistry. The Committee also advises students preparing for the allied fields of medical technology, nursing, physical and occupational therapy, and hospital administration, and assists students in choosing and making application to the professional schools. All students who intend to apply to such professional schools should register themselves with the Medical Sciences Committee in Room 100, Seaver Laboratory, soon after entering college.

Prospective applicants for admission to medical school are urged to study as early as possible, preferably in high school, the booklet "Admission Requirements of American Medical Colleges Including Canada," which may be purchased (\$2.00) from the Association of American Medical Colleges, 2530 Ridge Avenue, Evanston, Illinois.

PSYCHOLOGY

Recent surveys indicate an acute shortage of well-trained professional psychologists in clinical, counseling, and industrial areas, in college teaching, and in other educational work. There is also a growing demand for experimental psychologists to fulfill important research functions in the Armed Services, U.S. Public Health Service, and various local agencies. Social psychologists and experimental psychologists are needed for research in advertising and industrial settings. Women in particular are sought for careers in nursery school and child development.

An undergraduate concentration in psychology at Pomona provides a broad general background which is not only necessary for graduate

training in psychology but also is appropriate to later work in elementary education, social work, psychiatric nursing, and understanding human behavior in social, industrial, and home situations.

PUBLIC SCHOOL TEACHING AND ADMINISTRATION

The problems faced by the public school teacher and the school administrator demand a broad background in liberal education, as well as the specialized knowledge gained through professional courses in education. While Pomona College does not itself recommend candidates to the State Department of Education for credentials, it does afford an excellent foundation in education leading towards later certification by a graduate school. The College believes that preparation for teaching is enhanced when the academic subjects and the educational process are studied together; therefore it strongly recommends that some work in Education and Psychology accompany undergraduate concentrations in the teaching fields. Students planning careers in teaching are advised to take courses in the following areas as undergraduates: Contemporary Problems of Education, Introduction to Public School Teaching, Educational Psychology, and either Child or Adolescent Psychology.

California requires students who wish a *secondary* credential to complete a bachelor's degree and one year of graduate work. This program must include a teaching major of at least nine courses and a teaching minor of at least five courses in fields commonly taught in the high schools of the state. Of the subject fields acceptable in California as majors and minors, the following are available at Pomona College: social studies, life sciences, physical sciences, English, speech, foreign language, mathematics, art, music and physical education.

The minimum state requirement for the *elementary* credential is a four-year baccalaureate course, including certain specified work in professional education, but no specific subject major or minor is required. A requirement for a fifth year is to be added by approximately 1963. The soundest, most effective preparation for elementary school teaching involves concentration in fields allied to the elementary school program (e.g., English, social science, music, art, life science, mathematics, physical education, educational and child psychology). The college assumes that prospective elementary school teachers will elect to major in a department appropriate to the elementary school curriculum and will plan to complete their professional study after graduating from Pomona.

Applicants for teaching in the junior colleges of California must possess the M.A. or Ph.D. degree, typically in the teaching field, and a sequence

of studies in Education and directed teaching totalling ten semester units or the equivalent.

The post-graduate study for elementary and secondary credentials may be taken at the Claremont Graduate School or at any other college accredited by the state for teacher education. Each graduate school prescribes its own program for fulfilling credential requirements and these programs vary greatly. Students planning to secure teaching credentials are advised to consult with the Psychology Department at Pomona or Education Department of the Graduate School early in their college careers.

THE JOINT PROGRAM OF POMONA COLLEGE
AND THE CLAREMONT GRADUATE SCHOOL
FOR TEACHING CREDENTIALS
AND THE MASTER OF ARTS DEGREE

For students qualifying for the Elementary, Secondary or Junior College Teaching Internship Programs at Claremont Graduate School, certification to teach in the public schools of California may be accomplished as follows:

Elementary Internship Program. The applicant enrolls for Introduction to Public School Teaching during the spring semester of the Senior year, followed by a paid teaching internship of a full year in a cooperating elementary school.

Secondary Internship Program. This program is designed for the student planning to undertake study toward the Master of Arts degree in *the subject field or in Education* as an integral part of a program of preparation for high school teaching. The program has a number of optional sequences including a paid teaching internship.

Junior College Program. This program is an integral part of the studies leading to the Master of Arts degree in the subject field and includes a year of full-time residence study toward the degree and a paid internship of one year.

Specific details of these programs are explained in the catalog of the Claremont Graduate School and in descriptive monographs available at the Internship Office in Harper Hall.

SCIENCE

In addition to the programs of concentration described along with the course offerings of the departments, there are two special programs involving interdisciplinary study and research.

BIOPHYSICAL SCIENCES PROGRAM

For those students interested in experimental medicine, molecular biology, biophysics, and biochemistry a special program supported by the National Institutes of Health is available.

Students eligible for participation are those majoring in Zoology, Chemistry, or Physics. Minimum course requirements for the four-year program in addition to those of the particular major are: three courses in Zoology, two courses in Chemistry, two courses in Physics, Mathematics through calculus, and three courses in German, Russian or French. Students selected for this program will be designated NIH scholars, and summer research stipends will be available for work at Pomona or at other institutions. Travel grants for student attendance at national scientific meetings are also available. Information about the program may be obtained from Mr. Hansch in the Department of Chemistry.

Starting in the summer of 1963, thirty high school seniors who will be attending Pomona in the fall will be invited to the College for an eight-week program. The first three mornings of each week seminars will be held with some of the country's outstanding biophysical scientists discussing their current research on the frontiers between biology and the physical sciences. Students will learn to use the College's four digital computers in the handling of biological data.

Stipends will be granted to students to enable them to forego summer employment. Grants to cover the cost of travel to and from Pomona will be made where more than nominal expenses are involved.

UNDERGRADUATE SCIENCE EDUCATION PROGRAM

Thanks to funds currently being made available by the National Science Foundation through its Undergraduate Science Education program, selected students in biological and physical sciences at Pomona College are able to gain valuable experience in experimental science by means of active participation in research projects and in independent study. Under this program, now in its fourth year, stipends are provided for as many as thirty-two qualified students participating on a part-time basis during the academic year and for as many as thirty-seven students working full-time in the summer for a maximum of ten weeks.

In addition to these programs there are numerous grants to faculty members for research which give participating students additional laboratory experience and provide stipends for their assistance.

SOCIAL WORK

The field of social work covers many positions in agencies designed to meet human needs. The best training for a career in social work includes an undergraduate degree from a liberal arts college, preferably with a concentration in the social sciences, and a two-year program of graduate work in a professional school of social work. Some positions in public assistance and in group work are open to holders of the B.A. degree; others require one or two years of graduate training. Students interested in careers in social work are urged to consult the Chairman of the Department of Sociology and Anthropology, who is qualified to advise on course offerings in the College, graduate school requirements, and specific job qualifications.

THE CURRICULUM

THE PURPOSE of Pomona College is to prepare students for a society which expects of them leadership in diverse roles and offices, humble or great. The college endeavors to help its students toward a life in which professional achievement is accompanied by personal happiness, cultural balance, and social responsibility. Its program, therefore, includes courses intended primarily for general education as well as courses designed for specialized study and preprofessional training.

The immediate objective of general education, as expressed in the course requirements of the College, is to help the student develop:

1. Ability to use the English language effectively, in reading, in writing, and in speech.
2. Knowledge of scientific thought and method.
3. Understanding of the historical development of our civilization.
4. Understanding of human society, its problems and its institutions.
5. Understanding of the nature and operation of the American economic and political institutions.
6. Knowledge and appreciation of literature and the fine arts.
7. Knowledge of and sensitivity to ethical and spiritual values.

Because of the wide range of experience and special preparation among entering students, a considerable degree of election is permitted within the requirements designed to help the student achieve a liberal education. The requirements are planned also to encourage the student to investigate fields of knowledge new to him.

To secure the benefits of intellectual discipline derived from concentrated study, and at the same time, in many instances, to prepare for professional training after graduation, every student is required by the end of the Sophomore year to select a field of concentration in which he will complete not less than six courses in upper division work during his Junior and Senior years. The field of concentration may be represented by one department or may extend beyond departmental limits to include closely related subjects. For students of outstanding ability and well-defined interests, the field of concentration may be developed into a program of honors study. These requirements and programs of study are described in detail in the following pages.

FACULTY ADVISERS

Each new student is assigned to a faculty adviser. Advisers to Freshmen are general advisers who assist Freshmen in the selection of courses and general adjustment to the academic life of the College. At the end of the student's first year and in the light of his academic interest an adviser is assigned with whom the student will work during the remainder of his college course. If at any time a change is deemed wise it is made through the Registrar's Office.

SUMMARY OF REQUIREMENTS FOR THE DEGREE

Pomona College awards only the bachelor of arts degree. Commencement honors, *cum laude*, *magna cum laude*, and *summa cum laude*, are awarded on the basis of the over-all average of the student's work and of the quality of the comprehensive examination.

Courses: Thirty-two courses, with the addition of physical education activities in each semester of residence, are required for the degree. In order to complete in eight semesters the work required for the degree, one must take an average of four courses in each semester and, in addition, the required physical education activities.

A "course" consists of approximately one-fourth of the work expected of a student during *one semester* in lecture, discussion, studio, laboratory, reading, and study. The term applies both to a semester course and to one semester of a year course. The number of hours spent in class and laboratory may vary according to the subject and the level of the work. Some courses meet four or five hours a week, and, unless otherwise indicated, a science course includes whatever laboratory work is required. Courses involving extensive reading normally meet three hours weekly with a fourth hour available for conference.

A "half-course" is allowed chiefly for work in art, music, writing, and some advanced work in independent reading or research.

A "cumulative course" is used for work (e.g., in musical groups or in the Basic Course in Military Science) that continues through four semesters. Partial credit for incomplete cumulative courses is not allowed, except that a student involuntarily withdrawn from Military Science may petition for credit for that part of the work which he has completed.

Grade Points: In order to graduate, a student must not only complete thirty-two courses but also attain an average of at least C grade in all courses for which he has registered in Pomona College and in the regular terms of The Claremont Colleges. An explanation of the grading system will be found on page 85.

Residence: A minimum of four semesters in regular full-time attendance is required for graduation. For transfer students entering with Junior standing, this means the four remaining semesters. All students, except those engaged in the C.I.T. program, the Pomona Semester Abroad program, or the Washington Semester program, must be in residence in regular standing both semesters of the Senior year.

Distribution Requirements: All students must satisfy the requirements for distribution as explained on page 91. It is strongly recommended that students meet requirements involving lower division courses not later than the Junior year.

Upper Division Requirements: In the Junior and Senior years all students must undertake a program of concentration leading to a comprehensive examination or its equivalent. (See page 92.)

Physical Education Activities: Physical education activities must be included in the registration of each student in every semester of residence. Freshmen and Sophomores must satisfy the requirement of two activities each semester, and Juniors and Seniors must satisfy the requirement of one activity each semester. Freshmen and Sophomores enrolled in Military Science are required to take only one physical education activity in each semester, since the military drill required in the Basic ROTC Course is substituted for the second physical education activity. Exemption from this requirement is possible only by permission of the Classification Committee on the recommendation of the College Physician and the Department of Physical Education. Transfer students who met the Physical Education requirement of the institution from which they transferred need take only the amount required for their classification.

American History and Institutions: To be eligible for graduation all students are required by the laws of the State of California to pass examinations or courses in American history and in American and California institutions, including the provisions and principles of the United States Constitution and the principles of California state and local government as established under the Constitution of this State. The requirement in American history may be met by passing an approved course (normally History 100b); the requirement in American and California institutions may be met by passing Government 1 (or Government 52, previously offered); and either or both requirements may be met by passing special examinations. These examinations are given three times a year: for new students, before classes begin in September; for students in residence, early in the first semester and in April or May. The dates of the examinations are announced well in advance. New students are urged to take the examinations set especially for them in September. After these special examinations during the opening days, a student is eligible to take each examination once without fee, but if he then fails to pass he will be charged a \$2.00 fee for re-examination.

Reading lists for those preparing for the examinations are obtainable from the departments of History and Government. The examinations are objective.

Students failing an examination should consider the advisability of taking a course to meet the requirement.

Transfer students who have met the State requirements in another college or university will be expected to submit an official record of the fact. Any student who has not satisfied these requirements before the beginning of the second semester of his Senior year will not be considered a candidate for graduation and will not be eligible to take the concentration examination for that semester.

Foreign Languages: A reading knowledge of one foreign language will be a graduation requirement for all students who enter after September 1, 1963. The requirement may be met by (1) making a satisfactory score on the College Entrance Examination Board Achievement test; (2) by passing a proficiency examination set by one of the foreign language departments; or (3) by passing the third Pomona College course in a foreign language. For transfer students creditable work in equivalent courses will satisfy the requirement.

Apart from this minimal general requirement, students are advised to ascertain and prepare to meet the language requirements of their field of concentration in college and of their prospective graduate or professional schools. Many students will find it necessary and desirable to achieve a mastery of two foreign languages.

Graduation Fee: Every student expecting to graduate at the end of any given semester must file an application for graduation at the Registrar's Office not later than the beginning of his final semester and must include the graduation fee (\$10.00) with the payment of his other fees at the time of such registration. Failure to comply with these two requirements will automatically exclude a student from graduation that semester.

Completion of Requirements: Requests for consideration as candidates for the Pomona College degree from former students who for any reason discontinued attendance before completing all requirements for graduation will not be considered unless submitted within seven years from the time the student normally would have been graduated.

ACADEMIC REGULATIONS AND PROCEDURE

Grades and Grade Points: Each candidate for graduation must earn an average of at least C (i.e., six times as many grade points as courses) in courses for which he has registered in Pomona College and in the regular terms of The Claremont Colleges. Grade points are assigned on the following scale:

A	A—	B+	B	B—	C+	C	C—	D+	D	D—	F
12	11	10	9	8	7	6	5	4	3	2	0

These grade points and the resulting grade point averages may be converted to those in use before September, 1961 (A-4, B-3, C-2, D-1, F-0) by dividing by three.

Other grades used are:

P (passing) No grade points assigned.

I (incomplete due to illness)

W (withdrawn with permission)

Regulations concerning these grades and the F grade are explained in the rest of this section.

All F and I grades reported by instructors must be accompanied by a written statement of the specific reasons for the grade.

An F grade can be made up only by repeating the course. When two courses other than physical education activities constitute a year sequence (as in all courses with "a,b" or "a-b" following the number) a student who receives an F grade in the first course may register for the second only with the permission of the instructor. The making up of work which has received the F grade does not expunge the grade from the record. Although credit and grade points are allowed for the repeated work, all courses attempted and grade points earned are counted in computing the student's average.

The I grade is given when the illness of a student justifies the granting of additional time for the completion of the work. Instructors wishing to give an I grade for justifiable cause other than illness must first receive permission to do so from the Classification Committee. The statement accompanying an I grade must include a detailed explanation of how the grade can be made up. A copy of this statement is given to the student. All conditions for removing I grades must be met within seven weeks of the beginning of classes of the following semester. Upon completion of the work within this period the student will receive whatever grade he has earned. An I grade not made up within the designated period automatically becomes an F.

The mark W is used when a student withdraws from a course in accordance with the provisions outlined under Changes in Registration.

The grade P (passing) is used to indicate satisfactory completion of required physical education activities and of work in musical organizations (see pages 140 and 147). It may be used also for other courses under the following restrictions: (a) Juniors and Seniors may elect to take, outside their fields of concentration, courses to be graded "pass" or "fail." Not more than two courses in any one semester up to a maximum of four courses for the two-year period may be elected on this basis. This election may not include courses taken to fulfill distribution requirements or courses taken in other of The Claremont Colleges. Students must indicate at the time of pre-registration courses to be taken on a "pass-fail" basis, and the grading option may not be changed after the last day for entering classes.

(b) Work in not more than two Junior or Senior reading or research courses

within the student's field of concentration may be graded on the "pass-fail" basis at the *discretion of the instructor*.

Courses taken on the "pass-fail" basis are not included in the computation of the student's grade point average, but those passed are counted in the total of courses required for graduation.

Amount of work: The normal registration is four courses in each of the eight semesters plus Physical Education Activities and/or Military Drill. The three courses in Military Science may be taken in addition to or as part of the thirty-two courses required for graduation. Any student may take for credit, in addition to the normal registration of four courses, one of the following: Military Science; *or* Military Science and one cumulative course in Music; *or* one or two cumulative courses in Music.

Juniors and Seniors may register for more than four courses and one cumulative course in Music under the following conditions: (a) they must have a grade point average of 9.0 or better for the previous semester; (b) they may not take more than two additional courses in the four semesters of the Junior and Senior years, or more than one additional course in any semester; and (c) the option is not available to students already taking Military Science III and IV in addition to the normal registration. (For students in residence before September, 1961, one or more of these conditions may be waived by petition to the Classification Committee.)

The maximum number of half-courses that may be taken in any one semester is two if taken as part of a total registration of four courses, and one if taken in addition to a normal registration of four courses.

The minimum full-time load is three courses. Registration for fewer than three courses places a student in special standing. A student admitted to the college as a special student may be given regular standing only by action of the Admissions Committee. A regular student who drops to special standing may be readmitted to regular standing only by action of the Classification Committee. Special students are not considered to be candidates for a degree.

For the entire four years of college, not more than thirteen courses in one department may be counted toward meeting the graduation requirements.

Courses in other colleges: Courses taken in other of The Claremont Colleges during the regular terms may be counted as the equivalent of Pomona College courses in meeting the graduation requirements. For a course carrying less than full credit in the college which offers it special arrangements may be made through the Registrar's Office and the Classification Committee.

All summer session work will be evaluated on the basis of four semester units equalling one Pomona College course.

Auditing of Courses: Students regularly enrolled in The Claremont Colleges may, with the consent of the instructor, audit courses. Such arrangements will

not be officially recorded and will not receive credit. An auditor may not participate actively in course work and may not, therefore, request registration for credit after the normal deadline for requesting course registration. Persons not regularly enrolled in the Colleges may audit courses provided they obtain the instructor's permission and pay the regular auditor's fee of \$20 per course.

Quality of work: A student is expected to secure each semester six times as many grade points as the total number of courses for which he is registered.

By the middle of each semester instructors are requested to report all students doing unsatisfactory work for the period preceding the date of the report. In addition to these general reports, instructors are encouraged to make reports at any time concerning individual students who are not in good scholastic standing. Advisers and deans receive such reports and take such steps as are advisable in each individual case.

At the end of each semester a complete report is made on every student. This report becomes a part of the student's record and indicates his standing in the courses for which he has been registered.

The college may at any time require the withdrawal of a student if the quality of his work seems to warrant such action. Decision in every such case is reached by the joint action of the Student Affairs and Classification Committees in consultation with the student's adviser.

Completion of work: To be counted as work completed in the course, all papers, reports, drawings, and other assigned exercises must be turned in to instructors before the final examination.

Academic Record: All collegiate work for which a student registers constitutes a part of the academic record, whether or not the work is completed. Students failing to provide the Registrar's Office with transcripts of registrations in other institutions may be subject to dismissal from the College.

Reading Period: An instructor of an upper division course may suspend classes for a reading period of not more than three weeks. An instructor who plans to use this option should announce his intention and describe the scope and purpose of the reading period at the beginning of the semester. Usually the reading period comes at the end of the semester. If an instructor elects to have the reading period at another time, he must send to the Dean of the Faculty and the Registrar written notice of the dates of the proposed reading period.

Summer Reading or Research Courses: A department may offer for qualified students reading or research courses to be completed independently in a summer vacation. The student may not enroll for more than one such course in a summer, and credit will not be given for more than two such courses.

A student enrolled in a summer reading or research course may withdraw without penalty not later than July 31, by written notice to the instructor

and the Registrar. The final date for completion of work in summer reading or research courses is the first Saturday after first semester classes begin. The final date for submission of grades is the second Saturday after first semester classes begin.

Dismissal from Courses: A student who proves unable or unwilling to carry a course satisfactorily may be dropped from it by the Classification Committee upon the recommendation of the instructor.

Class Attendance: Students are expected to maintain regular attendance at all class appointments in the courses for which they are registered.

While there is no general college requirement, each instructor has the right to establish such specific regulations regarding attendance as may seem best suited to his particular department.

Final Examinations: Seniors may not take final examinations in courses in the semester in which they take their concentration examinations. Final examinations are required of all other students in all subjects save as exceptions are made by action of the Courses of Study Committee.

The schedule of final examinations is prepared by the Courses of Study Committee. Instructors may not change dates of examinations without the consent of this Committee. Examinations for individual students may not be given at other than scheduled times except by consent of the Classification Committee and on the presentation to the instructor of a Business Office receipt for a fee of two dollars (\$2.00), unless this fee is remitted by the Committee. Special examinations are rarely scheduled, except in cases of serious emergencies, such as illness.

Field Trips: Field trips are looked upon by the faculty as a legitimate part of certain courses. Permission for such trips is secured by instructors from the Dean of the Faculty at the opening of each semester. Instructors certify to the Dean the names of students participating in these trips.

Pre-Registration and Registration: On appointed days before Christmas vacation in December and late in the spring all students must pre-register by filling out schedules listing their choice of subjects for the following semester. The fee for any change in this pre-registration is \$3.00.

New students pre-register and register on announced days at the opening of each semester.

Registration is completed for all students by the payment of tuition on appointed days at the beginning of each semester.

The fee for late pre-registration or late registration is \$2.00 for the first or second day following the appointed days, and \$1.00 additional for every day thereafter to a maximum of \$10.00.

Students are not allowed credit for courses for which they are not formally registered.

Students may not enter courses later than two weeks from the beginning of class work.

Changes in Registration: Upon application to the Registrar's Office and with the approval of his advisers, a student wishing to modify his schedule of studies by addition or substitution of courses may do so within two weeks of the beginning of class work. All students except those registering for the first time are required to pay a change fee of three dollars. No change of registration is official unless the student has complied with the procedure established by the Registrar's Office.

The fee for a laboratory course will be refunded in full to students who withdraw from the course within three weeks of the beginning of classes. One-half the full fee will be refunded to those withdrawing in the following five-week period, but after eight weeks from the beginning of classes no laboratory fees will be refunded.

The last date for withdrawing from a course without penalty is five weeks from the first day of classes in the semester. Thereafter the dropping of a course by a student shall entail for him a grade of F for the course, except as circumstances may, in the judgment of the instructor and the Classification Committee, warrant a grade of W.

Matriculation: Pomona College distinguishes between the mere admission of a student and his matriculation. To be eligible for matriculation a student must have shown himself to be in accord with the spirit of the College, have carried and passed a minimum of three courses and have made at least an overall average of C in all work attempted during the first term of residence. The standing of all students is provisional until they have been matriculated. A public matriculation ceremony is held early in the second semester.

Students failing to matriculate at the end of their first semester may be matriculated at the end of any subsequent semester in which they have carried a minimum of three courses provided they have met all the above requirements including an overall average of C on all work attempted during their whole period of attendance.

Students are not candidates for a degree until they have been matriculated.

The Faculty Regulation on English: In the evaluation of all academic exercises the quality of English used by the student may be considered. Every student in every course is expected to use English that is grammatically correct and logically sound. Failure to meet such standards as may be set by the instructors for each course may result in a lower grade or failure in that course.

Leave of Absence: A leave of absence may be granted upon petition to the Classification Committee. Only those students in good standing academically and socially are eligible for leaves. A student on leave of absence has permission to re-enter the College in September provided notice of the intent to do so is filed with the Registrar by March 15, or in February if rooms

are available. Rooms are ordinarily available in February, but unless specific commitment is made in advance this cannot be guaranteed.

Leaves granted for medical reasons require approval of the College Physician and the Classification Committee, and return from leave requires the approval of the Physician and the Classification Committee.

A leave of absence is cancelled if the holder registers in another collegiate institution without prior approval from the Classification Committee.

Students who withdraw without a leave of absence must apply for readmission to the Committee on Admissions.

REQUIREMENTS FOR DISTRIBUTION

Distribution requirements shall be met only by the Pomona College courses listed below unless exception is granted by the Classification Committee. Students from other institutions who plan to transfer to advanced standing in Pomona College are advised to scrutinize their programs carefully to be sure they have taken the required work and to consult the Registrar concerning any questions as to the acceptance of credit.

Courses listed by number are especially recommended to meet these requirements. The term "course," as explained above, means a full course for one semester.

English 1.

Sciences. Any two courses numbered below 100 in Astronomy, Biology, Botany (*except* Botany 75), Chemistry, Geology, Physics, or Zoology. (Several departments offer courses planned especially for students concentrating in fields other than science. See the course descriptions for details. The student is advised to elect courses in areas other than those in which he has previously studied.)

Social Sciences. Three courses: Economics 51, 52; Government 1 or, after the Freshman year, 125 or 131; History 1a,b; Sociology 51, 52; Anthropology 53, 54, 100, 101. It is recommended, but not required, that the student take two courses in one department. In no case may a student take all three courses in one department to meet the requirement.

Literature, Art, or Music. One course. This requirement may be met by a course primarily concerned with the appreciation of literature rather than with the mastery of language, or by a course in art or music. Acceptable courses are:

- a. English 50, 58. Optional for Juniors and Seniors: English 125, 126, 127, 160, 161. For students concentrating in English: 51, 52.
- b. In the classics and in modern European languages, any course, in the original or translation, numbered above 50, except courses in composition and conversation.

c. Music 53, 54, or any semester course.

d. Art 1, 2, 9, 51, or any semester course.

Philosophy or Religion. One course. Philosophy: 50, 55, or any course from the Philosophy 110-114 series. Religion: 1, 2, 3; for Juniors and Seniors, any course *except* 107, 111, and 190.

Outside the Division of Concentration: Two courses, freely elected, in addition to the requirements specified above. Of the total of ten required courses, two outside the division of concentration must be taken in the Junior or Senior year.

REQUIREMENTS FOR CONCENTRATION IN THE UPPER DIVISION

All students must make a tentative choice of a field of concentration during the Freshman year and a definite choice by the end of the Sophomore year. The concentration may be entirely in one department or it may be a joint concentration requiring work in two or more departments. The requirements for both kinds of concentration are explained under department headings before the lists of courses offered. During their first two years students will be expected to complete the basic courses required by the department or departments of their choice.

Each student's program of concentration shall culminate in a written comprehensive examination over the entire field in which he has concentrated. The student must pass this examination in order to qualify for graduation. In a few departments research projects take the place of the written examination. The regular comprehensive examinations are given once each year on the dates listed on the College Calendar.

No student is permitted to take both the comprehensive examination and final examinations in courses the same semester.

The comprehensive examination must be taken at the officially scheduled time. Students who have failed the examination may request permission to retake it at the opening of the college year and at the end of each semester. Such applications must be in the hands of the department concerned by September 1, December 1, or April 1. A fee of \$10 will be charged for a re-examination which is taken at other than the times set for a regular concentration examination. All students who intend to take the regularly scheduled comprehensive examination must file an application with the Registrar not later than the beginning of the semester in which the examination is to be taken.

In the event that a student does not take all or part of his comprehensive examination because of illness, he will receive an "I" for the part or parts of the examination not taken. It is the responsibility of the student who does not take a comprehensive examination because of illness to inform the department giving the examination at the earliest possible time.

A program of concentration leading to the comprehensive examination must include not less than six courses and not more than eight courses numbered over 100 in the chosen field. These limits apply to that part of the student's program on which the comprehensive examination will be set.

For the entire four years of college, not more than thirteen courses in one department may be counted toward meeting the graduation requirements. This is a permissible maximum. Most students will find it desirable, in planning for their careers after graduation, to take less than this permissible maximum; and most concentrations are planned for less than a total of thirteen courses in four years.

HONORS STUDY

Honors study consists of a carefully planned program of tutorial work together with related seminars and courses carried out under the direction of a faculty member. Pomona College has offered this type of instruction since 1924 for the student who shows the capacity and inclination for more than average intellectual achievement and self-direction in his study. An Honors program permits freedom from a considerable part of academic routine during the Junior and Senior years and thus makes it possible for an individual to gain a wider and more profound knowledge of a chosen field and its ramifications than the usual curriculum permits.

Conduct of Honors Programs: General administration of Honors work is vested in the Honors Committee, which reviews individual programs and administers the faculty regulations regarding them.

Ordinarily a student enters Honors study at the beginning of his Junior year, and in no case may he be admitted after the beginning of his Senior year. A minimum grade-point average of 9.0 (or 3.0 under the grade-point system previously in use) is normally required for enrollment in Honors study. In addition, the recommendation of the department in which the student will work is necessary.

The number of courses allotted to Honors study must be not less than three nor more than five. Within these limits a student may be excused from formal classes. The method of Honors study varies; it may be carried on by tutorial conferences or in seminar or laboratory projects. The general regulation which limits to a total of thirteen courses the work which may be taken in any one department applies also to Honors programs.

Application forms for admission to Honors study may be obtained at the Registrar's Office. They should be filled out in close consultation with the faculty member who will supervise the program.

Evidence of the success of the student in his Honors work is measured by the quality of the thesis or project in which such a study normally culminates and by written and oral examinations. All or part of the Senior compre-

hensive examination in a field of study usually forms the written Honors examination in that field. The oral examination will pursue further topics considered in the written examination as well as subjects related to the thesis or project carried out by the student.

A student's performance in his Honors study and examinations is judged by his department and the board which conducts his oral examination, and their recommendations are reviewed by the Honors Committee. A student who has maintained in all his work a grade-point average of 9.0 and who has met successfully all the requirements of his program of Honors study will be graduated with a notation of that accomplishment on his diploma. He will also be eligible for such general commencement honors as may be indicated by his whole record.

A student who fails to meet the standard of his Honors program as a whole, but who completes work worthy of credit in the courses allocated to Honors, will receive credit and grades for the latter but will not receive notation of an Honors program completed upon his graduation.

COURSES OF INSTRUCTION

A SEMESTER COURSE or one semester of a year sequence is credited as a full course unless there is a notation that it is a "half-course." In a few instances, notably in advanced courses in independent reading or research, the course may be taken for full or half credit. Such courses are described as "course or half-course." For credit in military science and applied music see the explanations in the departmental statements preceding the course offerings.

The number of a course indicates the level of the work, as follows:

Below 50: elementary courses, usually taken in the Freshman year.
50 to 99: second-year courses or beginning courses more advanced than those numbered below 50.

Above 100: primarily for Juniors and Seniors, but open to Sophomores who have had the prerequisites indicated in the course descriptions. Students without previous work in the same field may enter these courses only by written permission of the instructors.

The notation NC indicates that the course is not credited toward the thirty-two required for graduation.

The letters "a-b" or "a,b" following a course number indicate that it is a year sequence. The hyphen indicates that credit will be given only upon completion of both semesters. The comma indicates that credit is given for either semester, but unless a passing grade has been received for the first semester the student may enter the second semester only by permission of the instructor.

Any course may be withdrawn if the enrollment is less than seven.

COURSES IN THE CLAREMONT COLLEGES

Following the departmental offerings of Pomona College are listed certain courses in the associated undergraduate colleges which are open to Pomona Sophomores, Juniors, and Seniors under approved conditions. Each regular student in residence in Pomona College shall, however, select not less than half of his registration each academic year from courses in Pomona College. Normally Freshmen will take their entire programs of study in the college of their residence.

Courses listed after the departmental offerings are open to Pomona College students without special arrangement. To enroll in courses other than those listed, students must first obtain a permission slip from the chairman of the corresponding department at Pomona, and, in many

instances, from the instructor of the course. It should be noted that many of the Scripps College courses must be taken for the entire year, and consequently credit cannot be allowed for only one semester. In studies involving the use of physical equipment and laboratory space, such as art and the sciences, it is necessary to impose limits on the exchange privileges.

Certain courses in the Claremont Graduate School are also open to Pomona Seniors who are concentrating in the fields in which the courses are offered. Short titles for these courses are given following departmental offerings. For fuller descriptions consult the catalog of the Claremont Graduate School. Permission to enroll in graduate courses must be secured from the chairman of the department in which the Senior is concentrating and from the instructor giving the course.

When a course in one of the other colleges duplicates the material of a Pomona course, credit will not be given for both. Since there are changes in course offerings from year to year, the student and his adviser should check carefully to avoid registration for a course in another college which duplicates work previously or concurrently taken at Pomona.

DIVISIONS

The departments of Pomona College are grouped in three divisions as follows:

DIVISION I [*Humanities*] Art, Chinese, Classics, Comparative Literature, English, German, Music, Philosophy, Religion, Romance Languages, Russian.

DIVISION II [*Natural Sciences*] Astronomy, Biology, Botany, Chemistry, Geology, Mathematics, Military Science, Physics, Psychology, Zoology.

DIVISION III [*Social Sciences*] Economics, Government, History, Oriental Affairs, Physical Education, Sociology and Anthropology.

Art

Two types of concentration are open to students of art within the department: the History of Art and the Practice of Art.

CONCENTRATION: HISTORY OF ART

Lower Division Work: Art 1, 2, and a combination of introductory art

courses to total no more than four courses. Each year, but particularly during the first two years, art history students are encouraged to take courses in classics, literature, music and philosophy, as well as in German and French or Italian languages.

Upper Division Work: Art 191 for three consecutive semesters and five upper division art history courses.

CONCENTRATION: PRACTICE OF ART

Lower Division Work: Art 1, 51, and a combination of introductory art courses, and in certain cases, upper division courses, for a total of no more than four courses. Each student's program will be arranged according to his interest and ability.

Upper Division Work: Five upper division courses in the practice of art including Art 185. Of these courses at least four must be taken in either painting or sculpture. In addition, work in art history for a total of three courses.

INTRODUCTORY COURSES

1. INTRODUCTION TO ART. *Mr. Cope.* A course designed to acquaint the student with what a work of art is and with the major critical and historical interpretations of the work of art. First Semester. Lecture, W, 1:15-2:05; Discussion Groups, M or F, 1:15-3:05.
2. INTRODUCTION TO ART (STUDIO). *Mr. Mason* (first semester) and *Mr. Grippi* (second semester). An introduction to the various approaches of the artists of today and the past to the creative act. The student works with different materials on problems of visual communication. No previous training in the practice of art is expected. First Semester: TTh, 1:15-2:05; F, 1:15-3:05. Second Semester: M, 2:15-3:05; W, 1:15-3:05, and one hour arranged.
6. INTRODUCTORY DRAWING. *Mr. Grippi.* A course investigating various drawing problems and methods as applied to the human figure, still-life and landscape. Each Semester. MW, 3:15-5:05, and two hours arranged.
9. INTRODUCTORY SCULPTURE. *Mr. Mason.* A basic course in sculpture comprising a study of the nature of form and a consideration of different media and techniques. Each Semester. TTh, 2:15-5:05.
12. INTRODUCTORY PAINTING. *Mr. Grippi.* A basic course concerned with the fundamentals of painting techniques. Each Semester. W, 3:15-5:05; F, 4 hours arranged.
18. DIRECTED PROJECTS. *Staff.* An opportunity for students who are planning to major in the practice of art to do individual work in either painting, sculpture or drawing. May be repeated once for credit. Course or half-course. Each Semester. Arranged.

19. DIRECTED READING. *Mr. Cope and Mr. Lowry.* An opportunity for students who are planning to major in the history of art to do individual reading in the history and criticism of art. May be repeated once for credit. Course or half-course. Each Semester. Arranged.

51. HISTORY OF WESTERN ART. *Mr. Lowry.* A survey of the major periods of art from the classical era to the present day. Architecture, painting and sculpture are discussed within the cultural, social and political framework of each period. Second Semester. TTh, 10.

65. SCULPTURE MODELING. *Mr. Mason.* A course explaining the development of sculptural form with emphasis on the human figure. May be repeated for credit. Second Semester. TF, 1:15-4.

HISTORY OF ART

103. THE ANCIENT NEAR EAST AND GREECE. *Mr. Carroll.* The art of Egypt, Western Asia and Greece from its beginnings to the Fourth Century B.C. Second Semester. TThS, 10. (Offered in alternate years; not offered in 1962-63.)

104. HELLENISTIC AND ROMAN ART. *Mr. Carroll.* The art of the ancient Mediterranean from the Fourth Century B.C. to the end of the Roman Empire. Second Semester. TThS, 10. (Offered in alternate years; not offered in 1962-63.)

110. THE ORIGINS OF THE RENAISSANCE. *Mr. Lowry.* A course in 14th and 15th century European painting and sculpture, with special emphasis on the works of Giotto, Masaccio, Donatello, Botticelli, and Van Eyck. First Semester. TTh, 2:40-3:55. (Offered in alternate years; offered in 1962-63.)

112. HIGH RENAISSANCE AND MANNERISM IN ITALY. *Mr. Cope.* Painting and sculpture of the 16th Century with emphasis on the works of Raphael, Michelangelo, Titian, Veronese and Tintoretto. First Semester. MWF, 11. (Offered in alternate years; not offered in 1962-63.)

113. RENAISSANCE AND BAROQUE ARCHITECTURE. *Mr. Lowry.* A course in European architecture from the 15th to the 18th century emphasizing Bramante, Michelangelo, and Bernini. First Semester. TTh, 1:15-2:30. (Offered in alternate years; offered in 1962-63.)

114. BAROQUE ART OF EUROPE. *Mr. Cope.* The painting and sculpture of the 17th Century with special attention to the work of Bernini, Poussin, Rembrandt, Rubens and Velasquez. Second Semester. MWF, 11. (Offered in alternate years; not offered in 1962-63.)

115. ROCOCO AND ROMANTIC ART. *Mr. Cope.* A course in European painting and sculpture of the 18th and early 19th centuries—Watteau, Boucher, Fragonard, Gainsborough, Hogarth, Blake, Goya, Tiepolo, and the court art of Versailles. Second Semester. MWF, 11. (Offered in alternate years; offered in 1962-63.)

134. NINETEENTH CENTURY PAINTING IN FRANCE. *Mr. Lowry*. A course covering the major artistic movements of the period from classicism to impressionism. Both works of art and theoretical writings are considered. First Semester. TTh, 1:15-2:30. (Offered in alternate years; not offered in 1962-63.)

135. MODERN ARCHITECTURE. A course in European and American architecture of the 19th and 20th centuries, with special emphasis on the works of Frank Lloyd Wright. Second Semester. (Offered in alternate years; not offered in 1962-63.)

136. TWENTIETH CENTURY PAINTING AND SCULPTURE. *Mr. Cope*. Major artists from 1900 to the present: Picasso, Matisse, Kandinsky, Brancusi, Moore, etc. First Semester. MWF, 11.

150. CRITICISM OF ART. *Mr. Cope*. A discussion course covering the writings of the principal art critics of the past and present. Second Semester. TTh, 2:40-3:55.

152. THE MEANING OF THE IMAGE IN ART. *Mr. Cope*. A lecture and discussion course concerned with the ways in which artists have conceived and presented subject matter. Second Semester. TTh, 2:40-3:55. (Offered in alternate years; not offered in 1962-63.)

180. CONCEPTS OF TIME AND SPACE IN ART. *Mr. Lowry*. A course dealing with the ways in which Ancient, Medieval, Renaissance and Contemporary artists have resolved the problems of depicting space and time in their painting. The relationships of these solutions to prevailing concepts in science and philosophy are included. Second Semester. TTh, 1:15-2:30.

191. RESEARCH IN ART HISTORY. *Mr. Lowry and Staff*. A directed program over three consecutive semesters during which art history majors do research on a particular phase of art history in preparation for an actual exhibition of works of art which they plan and install. During the Senior year the research program is supplemented by seminar meetings in which emphasis is given to (1) the writing of critical papers on original works of art in local collections and exhibits, and (2) the discussion of the theoretical writings of major art historians and critics. Arranged.

195. DIRECTED READING. *Staff*. Permission of chairman required. Course or half-course. Each Semester. May be repeated once for credit. Arranged.

PHILOSOPHY OF ART. See Philosophy 140.

AVAILABLE AT SCRIPPS COLLEGE

II-145. HISTORY OF ART AND ARCHITECTURE IN THE MIDDLE AGES. *Mr. Scott*. MWF, 8.

PRACTICE OF ART

105. DRAWING. *Mr. Grippi*. Practice in drawing and consideration of particular problems of graphic expression. May be repeated for credit. Half-course. Each Semester. MW, 3:15-5:05.

125. PAINTING. *Mr. Grippi*. A directed program of creative painting in which various painting problems are discussed and possible solutions are explored. As draughtsmanship is a basic aspect of the painting process, drawing is a fundamental part of the course. May be repeated for credit. Each Semester. MW, 3:15-5:05 and F, 5 hours arranged.

162. SCULPTURE. *Mr. Mason*. A course open primarily to art majors. Individual projects involving various media depending upon the student's interest, experience and ability. May be repeated for credit. Each Semester. TTh, 2:15-5:05, and 3 hours arranged.

185. PROBLEMS IN PAINTING, GRAPHIC ARTS AND SCULPTURE. *Staff*. A course open only to Seniors for the purpose of executing individual projects approved by the instructor. Second Semester. 9 hours arranged.

AVAILABLE AT SCRIPPS COLLEGE

II-120. PAINTING (OIL). *Mr. McClellan*. Prerequisite II-2 or its equivalent. Year course. MWF, 1:15-4:05.

II-121. PAINTING. *Mr. Dike*. Prerequisite II-2 or its equivalent. Year course. TTh, 1:15-4:05 and 3 hours arranged.

II-123. CERAMICS. *Mr. Soldner*. Open to Juniors and Seniors. Prerequisite II-2 or its equivalent. Year course. Two sections: MWF, 1:15-4:05 and TTh, 1:15-4:05 and 3 hours arranged.

II-125. GRAPHICS. *Mr. Darrow*. Open to Juniors and Seniors. Prerequisite II-2 or its equivalent. Year course. 2 units credit each semester. MW, 4:15-6:00.

II-126. ADVANCED DESIGN. *Mrs. Ames*. Open to Juniors and Seniors. Prerequisite II-2 or its equivalent. Year course. TTh, 1:15-4:05 and 3 hours arranged.

II-130. SCULPTURE. *Mr. Stewart*. Prerequisite II-2 or its equivalent. Year course. MWF, 1:15-4:05.

II-141. ARCHITECTURAL DESIGN AND PLANNING. *Mr. Criley*. Prerequisite II-2 or its equivalent. Year course. MWF, 1:15-4:05.

Astronomy

The major stellar telescopes at the Frank P. Brackett Observatory are a recently rebuilt 12" Newtonian-Cassegrain reflector and a new 6" refractor. Both telescopes are of the highest professional quality possessing features found on the largest research instruments, and are equipped for visual, photographic or photoelectric observations. Additional equipment includes a 4" refractor, a 3" meridian transit, a 13' spectrohelioscope and a Wild T-2 theodolite. Classroom instruction is facilitated by the use of a Spitz Model A-1 planetarium installed in the Millikan Building.

A minimum program for concentration in Astronomy, with a minor in Mathematics and Physics, must include Astronomy 61a,b; 156a,b; Physics 51a,b or 61a,b; 151a,b; and Mathematics 50a,b; 100 or 124, and 110 or their equivalents. For majors in Astronomy intending to proceed to graduate study, the following courses are also recommended: Astronomy 180; Physics 101a,b; 141 and 143 or 195 and 196; and Mathematics 130a,b or 120 and 160. In addition the student should possess a reading knowledge of French and German.

1. **ELEMENTARY ASTRONOMY.** *Mr. Routly.* A descriptive, non-mathematical account of the solar system and stellar astronomy. Periodic observation of interesting celestial objects with equipment at the Observatory. Field trips to the astronomical centers of the region. No prerequisites. Second Semester. TThS, 10. (Omitted in 1962-63.)

61a,b. **GENERAL ASTRONOMY.** *Mr. Routly.* Intended for astronomy majors and other qualified science students. Topics covered include co-ordinate systems, navigation, astronomical instruments, the solar system, stellar types, spectral classification, galactic structure, etc. Laboratory periods are compulsory and form an integral part of the course. Prerequisite: Mathematics 50a,b or its equivalent, taken previously or concurrently. Laboratory fee \$4.00 per semester. Class MWF, 10. Laboratory to be arranged. (Omitted in 1962-63.)

156a,b. **ASTROPHYSICS.** *Mr. G. D. Bell.* Course covers the elements of atomic spectroscopy, stellar atmospheres, stellar interiors and interstellar space. Prerequisites: Mathematics 110 taken previously or concurrently and Physics 51a,b or 61a,b. No previous training in Astronomy required. Course intended for majors in Astronomy and other qualified science students. Arranged.

180. **SELECTED TOPICS IN ASTRONOMY.** *Mr. Routly.* Independent study and research, intended for Astronomy majors proceeding to graduate study. Each student will conduct some suitable investigation, either theoretical or observational, terminating in a senior thesis. Prerequisite: Astrophysics 156a,b taken previously or concurrently. Half-course. Each Semester. (Omitted in 1962-63.)

Botany

BOTANY CONCENTRATION

Plan I. Botany: LOWER DIVISION COURSES: Botany 12, 15, 75; Biology 1 or equivalent. UPPER DIVISION COURSES: Botany 105, 107a,b, three courses from 103a,b and 113a,b; either 115 or 127. RELATED FIELDS: Zoology 1 or the equivalent; high school or college chemistry.

Plan II. Botany-Biology: LOWER DIVISION COURSES: Botany 12, 15, 75; Biology 1 or equivalent. Zoology 51a,b. UPPER DIVISION COURSES:

Botany 103a, 105, 107a,b, 113a; one course from 103b, 113b, 115, or 127. Two of the following courses: Zoology 115, 120, 122, 157. RELATED FIELD: High school or college chemistry.

Prospective candidates for graduate work should consult the department concerning foreign language requirements for advanced degrees.

Seniors under either concentration program are required either (1) to present a satisfactory paper and to pass an oral examination on the field of the paper, or (2) pass the senior comprehensive examination.

Plant Collection: All students in botany (either plan) should consult Mr. Benson concerning the plant collection built up in various courses. This is a graduation requirement, and the collection must be submitted for inspection at the time of the senior comprehensive examination. Credit for individual work on the collection beyond that in formal courses may be had by registration in Botany 75.

Agriculture, Forestry, Landscape Architecture: See mimeographed materials at the Botany Department.

Biology 1. HEREDITY AND EVOLUTION. *Mr. Phillips and Mr. Benson.* Principles of genetics; evidence of occurrence of evolution and field studies of the mechanism of origin of species. No prerequisite. Laboratory and field trip fee \$5.00. First Semester. Class and laboratory, TTh, 1:15-3:05; field trips arranged.

Biology 3. ELEMENTARY BIOLOGICAL INVESTIGATIONS. *Mr. Phillips.* Selected subjects derived from class experimentation, readings, and discussion, each topic culminating in some original research. Course not intended for students concentrating in the natural sciences. Laboratory fee \$5.00. Second Semester. Class and laboratory, TTh, 1:15-4:05.

12. GENERAL BOTANY. *Mr. Benson and Mr. Phillips.* Elementary biological principles as illustrated in plants; plant geography; plant structure and physiology. No prerequisite. Laboratory fee \$5.00. First Semester. Class and laboratory, TTh, 1:15-3:05; Th, 3:15-4:05 when required.

15. FIELD CLASSIFICATION OF PLANTS. *Mr. Benson.* An elementary discussion and field course in classification of flowering plants, ferns and cone-bearing trees. Laboratory and field trip fee \$5.00. No prerequisite. Second Semester. Class and field laboratory. TTh, 1:15-3:30.

75. INDIVIDUAL PLANT CLASSIFICATION. *Mr. Benson.* Collection and classification of flowering plants, ferns, and cone-bearing trees. Prerequisite: Botany 15. May be repeated for credit. Laboratory fee \$2.00. Half-course. Each Semester. Appointments and arranged. Field trips arranged. May be taken as a summer reading course.

103a,b. PLANT ECOLOGY. *Mr. Phillips*. The effect of environment upon plants; analysis of plant communities. Prerequisite: Botany 15 or permission of the instructor. Laboratory fee \$5.00. Class, laboratory, and field trips, F, 11-4:05 and occasional longer trips; conferences arranged. (Offered in alternate years; offered in 1962-63.)

105. PRINCIPLES OF EVOLUTION AND TAXONOMY. *Mr. Benson*. Evolution, relationships, and definition of plant (and animal) groups. Prerequisite: Botany 15. Laboratory and field trip fee \$5.00. First Semester. Class, MW, 11; laboratory, M, 2:15-4:05; field trips arranged. M, 1:15 should be kept free if possible. (Offered in alternate years; offered in 1962-63.)

107a,b. EVOLUTION OF THE PLANT KINGDOM. *Mr. Benson*. Structure, development, evolution, and relationships of classes and orders of algae, fungi, mosses, liverworts, ferns, and seed plants. Prerequisite: Botany 12 or equivalent. Laboratory fee \$5.00. Class and laboratory, TTh, 9-10:50 and arranged field trips. (Offered in alternate years; offered in 1963-64.)

113a,b. PLANT PHYSIOLOGY. *Mr. Phillips*. Physiological processes and principles, including photosynthesis, germination, dormancy, water relations, mineral nutrition, respiration, and growth. Prerequisite: Botany 12 or permission of the instructor; high school or college chemistry. Laboratory fee \$5.00. Classes, MW, 10; laboratory, W, 1:15-4:05. (Offered in alternate years; offered in 1963-64.)

115. VASCULAR PLANTS. *Mr. Benson*. Ferns, cone-bearing trees, and flowering plants. Prerequisite: Botany 12 or 15. Laboratory and field trip fee \$5.00. Second Semester. Class, MW, 11; laboratory, M, 2:15-4:05; field trips arranged. M, 1:15 should be kept free if possible.

127. PLANT ANATOMY AND MICROTECHNIQUE. *Mr. Carlquist*. Structure, life history, and development of flowering plants; preparation of microscopic materials for slides of plant structures. Prerequisite: Botany 12 or equivalent. Laboratory fee \$5.00. Second Semester. Class MW, 9; laboratory, mostly arranged on M, 1:15-5:05. (Not offered in 1962-63.)

199. BOTANICAL PROBLEMS. *Staff*. Individual studies: reading, laboratory, research or seminar work in selected topics in any field of botany. The student may anticipate preparation of a thesis for the Master's Degree by beginning a problem or continuing one begun in upper division courses. Permission of the instructor required. Laboratory fee \$2.00. Course or half-course. Each Semester. May be repeated for credit. Arranged. May be taken as a summer reading course.

Graduate work in Botany is offered through the Claremont Graduate School by the joint staffs of Pomona College, the Rancho Santa Ana Botanic Garden, and the Graduate School. The facilities for research in plant classification are particularly good because the Pomona College Herbarium includes about 335,000 specimens and the herbaria of the

College and the Botanic Garden together about 475,000. The libraries of both institutions have been developed most extensively for work in this field, and the Garden has unusual facilities for experimental study of plants.

AVAILABLE AT CLAREMONT GRADUATE SCHOOL

A wide variety of advanced courses in Botany are available at the Claremont Graduate School to qualified Seniors. Consult the department for details. Written permission of the chairman of the Pomona College department and of the graduate instructor is required for enrollment in graduate courses.

Chemistry

Concentration Requirements: Chemistry 1a,b, 110a,b, 125, 158a,b, 159, 183; Mathematics 3a,b and 30, 31, 32 or 50a,b; Physics 51a,b; German 51a or equivalent. Chemistry 51 may be substituted for Chemistry 1a,b, and Mathematics 3a,b is not required of those who qualify for Mathematics 30 or 50a,b by examination. Students who took Chemistry 1a,b or Chemistry 51 prior to 1962-63 must also take Chemistry 57 as part of the concentration requirement. Chemistry 57 will not be offered as a separate course after the current school year, 1962-63. Junior and Senior majors are expected to attend the weekly departmental seminars which, in 1961-62, will normally be scheduled on Wednesday at 4:15.

Pre-professional Program: Students who plan to go to graduate school in chemistry should take Chemistry 184 and 185, Mathematics 110, and Physics 101a in addition to the courses listed above. This program has been approved by the American Chemical Society Committee for Professional Training of Chemists. Students who are interested in biochemistry should consider the NIH program described on page 80.

Joint Concentration in Chemistry and Zoology. Requirements: Zoology 51a,b, 120, 122; Chemistry 1a,b, 110a,b, 158a,b; Physics 51a,b; German 51a or equivalent. In addition, two courses elected from the following group: Zoology 110, 111, 112; Chemistry 115, 125, 183, 184; Physics 101a. Students who took Chemistry 1a,b or Chemistry 51 prior to 1962-63 must also take Chemistry 57 as part of this concentration requirement.

1a,b. GENERAL CHEMISTRY. *Mr. R. N. Smith and Staff.* A beginning course to acquaint the student with the basic principles of chemistry and the reactions of the more common elements. The lectures are integrated with the laboratory work. The first semester laboratory is devoted entirely to quantitative analysis

and the second semester laboratory to qualitative analysis. Fee \$6.00 and deposit \$10.00 each semester. Lectures MWF, 9; laboratory M,T,Th, or F, 1:15-4:05.

51. ADVANCED GENERAL CHEMISTRY. *Mr. Quinlan*. A beginning course open only to well-qualified students (including freshmen) who satisfactorily pass a written examination over specified topics which will be announced well in advance of the examination. The laboratory will include quantitative and qualitative analysis. Fee \$6.00 and deposit \$10.00. First Semester. Lectures, MWF, 9; laboratory, T and W, 1:15-4:05.

57. QUANTITATIVE ANALYSIS. *Mr. Beilby*. An introduction to quantitative methods of analysis. Prerequisite: Chemistry 1 or 51. Fee \$6.00 and deposit \$10.00. Second Semester. Lectures, TTh, 10; laboratory, MW or TTh, 1:15-4:05. (This course will not be offered after 1962-63. In subsequent years the material of this course will be available only in Chemistry 1a,b.)

110a,b. ORGANIC CHEMISTRY. *Mr. Hansch and Mr. Allen*. The first semester is devoted to the study of aliphatic compounds and the second semester to aromatic. The laboratory includes both synthesis and qualitative organic analysis. In the second semester, non-chemistry majors have the option of substituting certain assigned written papers in place of the laboratory work. Prerequisite: Chemistry 1 or 51. Fee \$6.00 and deposit \$10.00 each semester. Lectures MWF, 8; laboratory M or F, 1:15-4:05 first semester, and F, 1:15-4:05 second semester.

115. BIOCHEMISTRY. *Mr. Penniston*. Prerequisite: Chemistry 110a,b. Second Semester. Lectures MWF, 11.

125. ADVANCED ORGANIC LABORATORY. *Mr. Hansch*. Selected organic preparations of an advanced nature, and qualitative organic analysis. Extensive use of the chemical literature is involved. Prerequisite: Chemistry 110 and reading knowledge of German. Fee \$6.00 and deposit \$15.00. First Semester. Laboratory, T, 1:15-4:05 and Th, 8:00-10:50 and 1:15-4:05.

158a,b. PHYSICAL CHEMISTRY. *Mr. Quinlan*. The principles of thermodynamics with application to physico-chemical systems, solutions, phase equilibrium, chemical equilibrium, electrochemistry, elementary kinetic theory, chemical kinetics and selected topics. Prerequisites: Chemistry 1 or 51, Physics 51, Mathematics 30, 31, 32 or 50. Lectures, MWF, 11 and one hour arranged.

159. PHYSICAL CHEMISTRY LABORATORY. *Mr. R. N. Smith*. Prerequisite: Chemistry 57 and 158 (158b may be taken concurrently). Fee \$6.00 and deposit \$10.00. Second Semester. Laboratory three afternoons arranged. Organizational meeting at 1:15 on first day of classes, and one other group meeting during first week for computer instruction.

183. ADVANCED ANALYTICAL CHEMISTRY. *Mr. Beilby*. A survey of modern methods of analysis with the emphasis in the laboratory on instrumental

methods of analysis. Prerequisite: Chemistry 57 and 158. Fee \$6.00 and deposit \$10.00. First Semester. Lectures, MWF, 9, for first 10 weeks of semester; laboratory 3 afternoons arranged during last 10 weeks of semester.

184. ADVANCED ORGANIC CHEMISTRY. *Mr. Allen*. Selected topics discussed at an advanced level. Second Semester. Prerequisite: Chemistry 110 and 158. Lectures, MWF, 10.

185. ADVANCED INORGANIC CHEMISTRY. *Mr. R. N. Smith*. Selected topics discussed at an advanced level. First Semester. Prerequisite: Chemistry 158. Lectures, MWF, 10.

198. SUMMER RESEARCH. *Staff*. Open to Junior and Senior students of proven ability, by invitation. A written report and an oral presentation of the results of the summer's work is required. Arranged.

199. SELECTED TOPICS IN CHEMISTRY. *Staff*. Directed research or independent study of advanced subjects not treated in other courses in the department. Open to upper division students with a grade average of "B" or better in Chemistry. Permission required. Each Semester. Arranged.

Classics

A coordinated program is offered by the Classics Departments of Pomona College, Scripps College, and Claremont Men's College.

For concentration in Classical languages and literature a student is required to take at least seven courses in Greek and Latin numbered over 100 and to complete a reading list from Greek and Latin authors in class work or independent study. At least two courses in Modern European languages are strongly recommended. Electives in history, art history, philosophy and Continental literature are advisable.

GREEK

51a-b. ELEMENTARY GREEK. *Mr. Carroll*. Greek grammar and syntax for beginning students. Selected readings from Classical and New Testament Greek. MWF, 8, with fourth meeting arranged. (Omitted in 1962-63; offered at Claremont Men's College.)

101. INTERMEDIATE GREEK. *Mrs. Tellman*. For students with Classics 51 or equivalent. Review of grammar and syntax and selected readings from Homer and Plato. First Semester. Arranged.

182a,b. GREEK READINGS AND COMPOSITION. *Mrs. Tellman*. For students with Classics 101 or equivalent. Readings in the orators, historians, philosophers, dramatists and lyric poets. Second semester may precede first and either course may be repeated for credit. Arranged.

LATIN

57. INTERMEDIATE LATIN. *Mr. Carroll*. For students with one or two years of secondary school Latin or Scripps Latin I-8. Review of grammar and syntax and readings from Cicero, Sallust and Ovid. First Semester. Arranged. (Omitted in 1962-63.)

181a,b. LATIN READINGS AND COMPOSITION. *Mr. Carroll*. For students with more than two years of secondary school Latin, Classics 57, or Scripps I-58. Second semester may precede first and either course may be repeated for credit. Readings in Latin prose and poetry. Arranged. (Omitted in 1962-63.)

195. READING AND RESEARCH. For students who have completed at least one course in classics numbered over 100 and are judged capable of independent study by the department. The course may be taken during the regular term or summer vacation or as part of the Pomona Semester Abroad. Study project must be approved in advance and evaluated at conclusion by the department. May be repeated once for credit.

GREEK AND ROMAN LITERATURE IN TRANSLATION

161. CLASSICAL MYTHOLOGY. *Mr. Carroll*. The structure and interpretation of Greek and Roman myth. Readings from ancient literature in English translation. No prerequisite. Second Semester. TThS, 10. (Offered in alternate years; not offered in 1962-63.)

HISTORY OF GREECE. For description see History 101.

HISTORY OF ROME. For description see History 102.

ANCIENT ART. For description see Art 103, 104.

AVAILABLE AT CLAREMONT MEN'S COLLEGE

H20. ELEMENTARY GREEK. *Mr. O'Connell*. First Semester. MWF, 8.

H21. INTERMEDIATE GREEK. *Mr. O'Connell*. Second Semester. MWF, 8.

H125. GREEK HISTORY. *Mr. O'Connell*. First Semester. MWF, 9.

H126. HISTORY OF WESTERN WORLD IN FIRST CENTURY A.D. *Mr. O'Connell*. Second Semester. MWF, 9.

AVAILABLE AT SCRIPPS COLLEGE

I-8. ELEMENTARY LATIN. *Mr. Palmer*. Year course. Arranged. (Offered in alternate years; not offered in 1962-63.)

I-58. INTERMEDIATE LATIN. *Mr. Vosburg*. Year course. Arranged.
(Follows Pomona Classics 57.)

I-104. ROMAN DRAMA. *Mr. Palmer*. First Semester. Arranged.

- I-105. LUCRETIUS. *Mr. Palmer*. Second Semester. Arranged.
- I-107. GREEK TRAGEDY IN ENGLISH TRANSLATION. *Mr. Palmer*. First Semester. Arranged.
- I-108. ADVANCED LATIN PROSE COMPOSITION. *Mr. Vosburg*. First Semester. Arranged.
- I-178. THE ROMAN ELEGY. *Mr. Palmer*. First Semester. Arranged.
- I-179. MEDIEVAL LATIN POETRY. *Mr. Palmer*. Second Semester. Arranged.
- I-190. SENIOR SEMINAR IN LATIN LITERATURE. *Mr. Palmer*. Second Semester. Arranged.

Comparative Literature

Concentration in Continental Literature. Requirements: eight courses numbered over 100. Four of these courses must be in Continental Literature (in translation), four in European or classic literature in the original language. Electives in English literature and Classics are strongly recommended.

181a,b. READINGS IN CONTINENTAL LITERATURE IN TRANSLATION. *Mr. Baumann*. A study of outstanding works of Dante, Stendahl, Dostoevsky, Tolstoy, Thomas Mann and others. (Open to Seniors. Others admitted only by permission of the instructor.) May be repeated for credit. Arranged.

Economics

Prerequisites: Economics 51 and 52, or equivalent, are prerequisites for all advanced courses in economics. A grade of "C" or better in both courses is required for concentration in the field.

Concentration Requirements: Economics 57, 71, 104, 105, 107, and other courses in economics to bring the total of upper division courses to seven.

Recommended Programs: Economics 51, 52, 57 and 71 should be taken in the Sophomore year, 104, 105 and 107 in the Junior year, and other courses in the field of the student's special interest during the Senior year. In order to achieve a desirable balance between breadth and depth, students should seek a well-integrated selection of courses in the humanities, social sciences, and sciences during each of the four years. Consideration should be given to election of History 118.

Students who plan to attend a graduate school of business or enter a

corporation training program should take Economics 110, 111, 150, and a course in expository writing (e.g., English 2).

Pre-legal students should take a full year of Accounting 71 and 150, and 189, and either 198 or 199 in addition to courses required of majors in the Junior year.

Economics-Engineering students should take the 104, 105, 107 sequence before taking courses numbered over 150.

Students who contemplate a career in teaching or research, whether in educational institutions, non-profit research organizations or private industry, should include courses in mathematics and foreign language. Both are often required for advanced degrees in Economics.

Three-Year M.A. Program: Proximity and cooperation between Pomona College and the Claremont Graduate School make it possible for students to plan, beginning with their Junior year, a three-year program enabling them to earn both the B.A. and M.A. degrees. Any student interested in pursuing such a program is invited to confer with the department.

American Economic and Political Institutions: See Government.

51. ECONOMICS. *Staff.* An introduction to modern economic society with emphasis on the changing social values and institutions of the American economy, the monetary system, and the theory of income determination. First Semester: Lecture, MWF, 8, 9, 10, 11; TThS, 9, 10; Group Lecture, Th or F, 1:15. Second Semester: Lecture, MWF, 9.

52. ECONOMICS. *Staff.* A continuation of Economics 51, with emphasis on the theory of market organization, contemporary public policy issues, economic growth and development, and international trade; completes the introduction to the entire field of economics. Prerequisite: Economics 51. First Semester: Lecture, MWF, 9. Second Semester: MWF, 9, 10, 11; TThS, 10. Group Lecture, Th, 1:15.

57. ECONOMIC STATISTICS. *Mr. Walker.* Quantitative methods applied to economic and business problems; descriptive statistics, inference, correlation, index numbers, and the use of time series. Second Semester. TThS, 8; laboratory, T or W, 1:15-3:05.

71. ELEMENTARY ACCOUNTING. *Mr. Rostvold.* Introduction to the theory and practice of accounting in the modern corporation. First Semester. MWF, 8; laboratory, Th or F, 1:15-3:05.

ADVANCED COURSES

Economics 51 and 52, or equivalent, are prerequisites for all advanced courses in economics.

100. CONTEMPORARY PUBLIC POLICY. *Mr. Cook*. An analysis of current public policy issues with emphasis on the economic basis of political decisions at the federal level. Not open to concentrators in economics. Half-course. First Semester. TTh, 1:15. (Omitted in 1962-63.)
104. MARKET PRICE THEORY. *Mr. Sutton*. A study of economic organization, markets and prices, resource use and income division in markets containing various degrees of competition and monopoly. First Semester. MWF, 10.
105. NATIONAL INCOME AND BUSINESS CYCLES. *Mr. Walker*. Conceptual and practical problems in measuring national product; static theory of national income determination; introduction to dynamic macrotheory; theories of crisis, depression, recovery, boom and inflation. First Semester. TThS, 9.
107. MONEY AND BANKING AND PUBLIC FINANCE. *Mr. Cook*. Principles of money, credit, banking and monetary policy combined with principles of public finance and fiscal policy, including an analysis of the impact of financial policies and institutions on the level of income and prices. Second Semester. TThS, 9 and W, 1:15.
110. PUBLIC POLICIES TOWARD BUSINESS. *Mr. Douglass*. A broad survey of the public policy of maintaining competition and of experience with alternative types of public regulation. Second Semester. MWF, 10. (Omitted in 1962-63.)
111. LABOR ECONOMICS. *Mr. Sultan*. A brief history of organized labor is followed by an analysis of wage policies, labor productivity, collective bargaining, minimum wage legislation, labor monopoly, and current labor legislation. First Semester. MWF, 11.
123. INTERNATIONAL ECONOMICS. *Mr. Walker*. An introduction to the theory of international trade and finance and its use in explaining contemporary international economic relations, such as barriers to trade, payments systems, foreign aid and investment, regional integration, and the economic factors in diplomacy. First Semester. TThS, 8.
150. MANAGEMENT AND LEGAL ACCOUNTING. *Mr. Rostvold*. Analysis of the role of accounting as an instrument of managerial control and decision-making. Emphasis is placed upon the legal, tax, and financial aspects of the modern business entity. Prerequisite: Economics 71. Second Semester. MWF, 9.
153. ECONOMIC DEVELOPMENT. *Mr. Palmer*. A study of the processes and problems of promoting economic development in low income countries. Includes discussion of important policy issues such as national economic planning, population control, and international assistance programs. Second Semester. TThS, 8.
180. DEVELOPMENT OF ECONOMIC IDEAS. *Mr. Walker*. An examination of the major innovations in economic theory from Adam Smith to the present which contribute to an understanding of the field of economics.

Emphasis is on the evolution of systems of thought and their impact on modern economic doctrines. Second Semester. TThS, 10. (Omitted in 1962-63.)

189. ECONOMICS OF TAXATION. *Mr. Rostvold*. An analysis and evaluation of the effects of governmental taxation and expenditure policies on the American economy. Half-course. Second Semester. TTh, 9.

191. MONETARY THEORY AND POLICY. *Mr. Sutton*. The interrelationships of money, income, and prices, with emphasis on the theory of output as a whole and policies designed to maintain high level employment without inflation. Half-course. Second Semester. MW, 11.

192. INTRODUCTION TO ECONOMETRICS. *Mr. Walker*. Prerequisite: Economics 57 or comparable course in elementary statistics. The mathematics of economic model building; structure and characteristics of models; statistical inference applied to problems of parametric evaluation. (Omitted in 1962-63.)

195. COMPARATIVE ECONOMIC SYSTEMS. *Mr. Cook*. A description and analysis of theories and forms of economic organization and the determinants of economic systems, with major emphasis on the United States and the Soviet Union. Second Semester. TThS, 10.

196. REGIONAL ECONOMIC DEVELOPMENT. *Mr. Palmer*. An analysis of the processes and problems of regional economic growth in the United States, with particular reference to the development of workable regional public policies. First Semester. MWF, 9.

197a,b. DIRECTED READING AND RESEARCH. *Staff*. Supervised advanced study in selected fields of economics. Open to qualified Seniors with the permission of instructor and chairman of the department. Arranged.

198, 199. SENIOR SEMINAR. *Mr. Rostvold*. Reading and discussion of leading books, new developments in economic theory, current problems, and public policies. 198 offered first semester 1962-63. T, 1:15-3:05. (199 omitted in 1962-63.)

AVAILABLE AT CLAREMONT MEN'S COLLEGE

Concentrators who have completed Economics 51 and 52 may elect courses at Claremont Men's College with the permission of their advisers and the chairman of the department.

AVAILABLE AT CLAREMONT GRADUATE SCHOOL

Open to qualified Seniors with the permission of the chairman of the department and the instructor of the graduate seminar:

MATHEMATICS FOR ECONOMISTS. *Mr. Vandermeulen*.

NATIONAL INCOME ANALYSIS. *Mr. Walker*. Second Semester.

(See Claremont Graduate School catalog for course descriptions and pre-requisites.)

Education

For advisement, including information on certification requirements in California and other states, please consult Mr. William Faust in the Department of Psychology. Appointments for conferences with the following members of the Claremont Graduate School Faculty may be arranged by calling the Internship Secretary, Ext. 2211: Elementary — Mr. Malcolm P. Douglass and Miss Ruth Larson, Harper Hall 1; Secondary and Junior College — Mr. Arthur R. King, Jr., Harper Hall 201, and Mr. John A. Brownell, Harper Hall 12.

155. CONTEMPORARY PROBLEMS OF EDUCATION. *Mr. Hallman*. The following topics will be discussed in this course: the school as a social institution; the school and community structure; conflicts regarding the place of the school in American society. Prerequisite: Sociology 51 or permission of instructor. First Semester. M, 4:00-6:00.

170. INTRODUCTION TO PUBLIC SCHOOL TEACHING. *Miss Larson and Mr. Douglass*. This course is planned for Senior students considering a teaching career in elementary or secondary schools. Emphasis is placed upon developing an understanding of the role of public education in contemporary society. Attention is given to the curriculum of the elementary and secondary school, issues and problems of instruction, and an evaluation of current trends and practices in public education. An extensive school and classroom observation program is provided as part of the course. It may comprise the first part of the Claremont Graduate School Teaching Internship Programs. Second Semester. F, 1:15-4:00.

English

English 1 or its equivalent is prerequisite for all other departmental courses. History 1a,b is required of all students intending to concentrate in English. Prospective literature majors must take English 51 and 52; prospective writing majors must take English 51 and 64; prospective drama majors must take English 51 and Drama 82. English 64 is prerequisite for upper division courses in writing.

A reading knowledge of at least one language and literature other than English, as well as high school preparation in Latin, is strongly recom-

mended. In most graduate schools, candidates for the degree of Doctor of Philosophy are required to have a reading knowledge of *two* foreign languages.

CONCENTRATION WITH EMPHASIS ON LITERATURE

Five upper division courses, distributed as below, and English 197 (Senior Thesis).

Group I: English 131, 132 (one course)

Group II: English 133, 134, 135 (one course)

Group III: English 125, 126 (one course)

Group IV: English 155a,b, 153, 156 (two courses)

CONCENTRATION WITH EMPHASIS ON WRITING

Five upper division courses, as above, English 181, and two semesters of English 183. One of these must be taken in the last semester of the Senior year.

CONCENTRATION WITH EMPHASIS ON DRAMA

Drama 113a-b (two half-courses) and Drama 108a,b (two courses).

Three courses chosen from English 155a,b, 161, 164.

One course chosen from Drama 109a-b, 110.

Students are required to read, from a list of major works, books not covered in the courses which they have elected. This supplementary reading will be included in the comprehensive examination.

ENGLISH

1. ENGLISH: AN INTRODUCTORY COURSE. *Mr. Frazer and Staff.* Reading: great works of western literature from classical times to the present. Writing: critical papers on literary problems. Students who need further training in writing are advised to enroll for English 2. First Semester (nine sections): MWF, 8, 9, 10, 11; TThS, 8, 9. Second Semester (five sections): MWF, 8, 9, 11; TThS, 8, 9.

2. EXPOSITORY WRITING. *Staff.* Practice in various types of exposition, with emphasis on organization, coherence, clarity, and accuracy of diction. First Semester: MW, 10; TTh, 9, and individual conferences. Second Semester: MW, 9, 11; TTh, 9, and individual conferences.

50. GREAT AUTHORS. *Mr. Wine*. A critical study of great writers representing major periods and forms of literature in English. For students who do not intend to concentrate in English. Second Semester. MWF, 11.
51. MAJOR ENGLISH POETS. *Mr. Bracher*. Poets studied as representative of particular periods of English literary history: Chaucer, Milton, Pope, Wordsworth, Arnold, Eliot. For students who intend to concentrate in English. First Semester. MWF, 10.
52. LITERARY ANALYSIS. *Mr. Frazer and Staff*. Practice in the close reading and analysis of major literary forms. For Freshmen and Sophomores who intend to concentrate in English. First Semester: MWF, 11. Second Semester (three sections): TThS, 9.
58. INTRODUCTION TO PROSE FICTION. *Mr. Beatty and Mr. Carroll*. A survey of important works in prose fiction with emphasis upon selected novels—English, American, and continental—from the eighteenth century to the present. Each Semester. MWF, 9.
64. NARRATIVE AND DESCRIPTIVE WRITING. *Mr. Weismiller and Mr. Mulhauser*. The basic creative problems of narration and description. Prerequisite for English 181 and 183. Enrollment limited to 25 students each semester. First Semester: TThS, 9. Second Semester: TThS, 10.

ADVANCED COURSES

Courses numbered above 100 are planned for Juniors and Seniors. Sophomores may enroll by permission of the instructor.

125. AMERICAN LITERATURE I. *Mrs. Jordan*. Selected major figures from the beginnings with emphasis on the nineteenth century through Poe and Hawthorne. First Semester. TThS, 10.
126. AMERICAN LITERATURE II. *Mrs. Jordan*. The latter half of the nineteenth century, from Melville to E. A. Robinson and Dreiser. Second Semester. TThS, 10.
127. AMERICAN LITERATURE III. *Mr. Holmes*. Major writers from 1900 to the present: Frost, O'Neill, T. S. Eliot, Dos Passos, Hemingway, and others. First Semester. TThS, 9. (Omitted in 1962-63.)
131. TUDOR POETRY AND PROSE. *Mr. Barnes*. The major literary themes and forms of the English Renaissance as exemplified in the works of the great writers of the Tudor period. First Semester. MWF, 9.
132. SEVENTEENTH-CENTURY POETRY AND PROSE. *Miss Nicholson and Mr. Fogle*. Non-dramatic literature of the period 1600-1660, excluding Milton. Emphasis on the Metaphysical poets, Cavalier poets, and major prose writers. Second Semester. M, 3:15-4:05; W, 3:15-5:05.
133. EIGHTEENTH-CENTURY POETRY AND PROSE. *Mr. Bracher*. Selected authors from Dryden to Burns, studied in relation to the social and intellectual history of the period. Second Semester. MWF, 2:15.

134. THE ROMANTIC POETS. *Mr. Mulhauser*. The major poets of the Romantic period. First Semester. TTh, 1:15-3:05.

135. VICTORIAN LITERATURE. *Mr. Pinney*. An intensive study of the major poets and prose-writers of the Victorian period. Second Semester. TThS, 9.

153. CHAUCER. *Mr. Barnes*. A close study of Chaucer's poetry in its medieval (literary, linguistic, social, and philosophical) setting. Second Semester. MWF, 11.

155a,b. SHAKESPEARE. *Mr. Strathmann*. A study of the principal plays and of Shakespeare's career as a dramatist. First semester, mainly comedies and histories; second semester, mainly tragedies. MWF, 11.

156. MILTON. *Mr. Weismiller*. A study of the poems and selected prose works, emphasizing the literary and intellectual background of Milton's work. First Semester. MWF, 11. (Omitted in 1962-63.)

160. THE ENGLISH NOVEL. *Mr. Pinney*. Major British novelists from Defoe to Conrad, with emphasis on the contribution of each to a changing and developing tradition. First Semester. MWF, 1:15.

161. ENGLISH DRAMA. *Mr. Wine*. A chronological study of the work of major dramatists, excluding Shakespeare, from the beginnings through the nineteenth century. First Semester. MWF, 2:15.

162. CONTEMPORARY FICTION. *Mr. Frazer*. Stories and novels of Joyce, Faulkner and other recent writers, studied with emphasis on their techniques and moral views. Second Semester. MWF, 10.

163. CONTEMPORARY POETS. *Mr. Weismiller*. Poets of the twentieth century, Gerard Manley Hopkins to the present, studied in the light of the great poetic tradition. First Semester. MWF, 10.

164. CONTEMPORARY DRAMATISTS. *Mr. Wine*. Chief emphasis on British and American drama of the twentieth century. Second Semester. TTh, 1:15-2:30.

171. THE ENGLISH LANGUAGE. *Mr. Bracher*. A survey of the principal areas of linguistic study, with illustrations drawn primarily from the history of English. Recommended for prospective teachers of English and other languages. Second Semester. MWF, 8.

172. LITERARY CRITICISM. *Mrs. Jordan*. A study of the important critical approaches to major literary forms and modes: comedy, tragedy, irony, myth, symbol. Reading of critical documents and application of critical principles to selected literary works. First Semester. TTh, 2:40-3:55.

181. THE SHORT STORY. *Mr. Frazer*. Study of the short story form and practice in the writing of short fiction. Enrollment limited to 25 students. Prerequisite: English 64 and permission of the instructor. First Semester. T, 1:15-3:05.

183. ADVANCED CREATIVE WRITING. *Mr. Weismiller*. Supervised practice in the forms of creative writing, selected according to the needs and abilities of the students. Enrollment limited to 25 students. Prerequisites: English 64, and English 181 or permission of the instructor. Half-course. Each Semester. May be repeated for credit. T, 1:15-3:05.

190. SENIOR SEMINAR. *Mr. Mulhauser*. Topic for this year: Henry James and D. H. Lawrence. Topics and instructors are changed each year. Enrollment limited to 12 Senior concentrators. Permission of the instructor required. Second Semester. Arranged.

194. BACKGROUNDS OF ENGLISH LITERATURE. *Staff*. Offered only to concentrators in English accepted for the Pomona Semester Abroad. Consult department chairman.

195. DIRECTED READING. *Staff*. Individual programs of study for specially qualified students. Permission of department chairman required. Arranged.

197. SENIOR THESIS. *Mr. Pinney and Mr. Carroll*. Individually planned reading programs directed toward the writing of a Senior thesis. Required of all Seniors concentrating in English literature. First Semester. Arranged.

DRAMATICS

17. INTRODUCTION TO THE THEATRE. *Mr.* A brief survey of the theatre arts and study of selected plays. Designed to acquaint students with the various modes of drama and the basic tools of dramatic criticism. Second Semester. TTh, 1:15-2:30.

82. CHARACTER PRESENTATION IN DRAMATIC LITERATURE. *Mr.* A study of theories of acting and principles of stage behavior. Pantomime, improvisation, and presentation of scenes from plays. First Semester. TThS, 9.

108a,b. HISTORY OF THE THEATRE. *Mr.* An historical survey of world drama and theatre practices from Greek antiquity until modern times. First semester: ancient Greece through the English Renaissance. Second semester: French Classicism through modern times. TThS, 10.

109a-b. ADVANCED ACTING. *Mr.* A study of the techniques of acting: stage speech; movement; characterization; period styles. Students enrolled in the course must participate, in some capacity, in all major productions. Half-course each semester. TThS, 10. (Omitted in 1962-63.)

110. DIRECTING. Fundamental principles of stage directing. Application of theories in class exercises and the direction of scenes. Second Semester. MWF, 10. (Omitted in 1962-63.)

113. PROBLEMS IN THEATRICAL PRODUCTION. *Mr.* Critical analyses of the plays chosen for production each year: intensive study of the texts and of relevant criticism, together with an investigation of the practical problems involved in staging the plays. Students enrolled in the course must

participate, in some capacity, in the production of the plays. Half-course. May be repeated once for credit. Each Semester. TTh, 2:40-3:55.

SPEECH

70. SPEECH COMPOSITION AND DELIVERY. *Miss Maxwell*. A course to develop skill in effective oral communication. Training in the analysis, support, and development of subject material, appropriate use of language, effective vocal and bodily expressiveness. First Semester: MWF, 11; Second Semester: MWF, 9.

102. PERSUASIVE DISCOURSE. *Mr. Martin*. In frequent performance, students will examine and apply the logical and non-logical modes of influencing belief and action: methods of holding attention and interest, adaption to types of audiences, suggestion, motivation, dramatization of ideas. Second Semester. MWF, 11. (Omitted in 1962-63.)

194. READINGS AND RESEARCH IN DRAMA AND SPEECH. *Staff*. Reading and research programs for students who are capable of independent study in fields not included in regularly scheduled courses. Arranged.

AVAILABLE AT CLAREMONT MEN'S COLLEGE

Some courses (starred) duplicate courses at Pomona. Credit will be allowed for either the Pomona course or the course in one of the other Claremont Colleges, but not both.

*H133. MASTERPIECES OF DRAMA. *Mr. Haskins*. Second Semester. MWF, 9.

*H134. CONTEMPORARY ENGLISH NOVEL. *Mr. Atherton*. Second Semester. MWF, 10.

*H136. MODERN AMERICAN NOVEL. *Mr. Dunbar*. First Semester. MWF, 11.

H137. ENGLISH SATIRE. *Mr. Elsbree*. Second Semester. MWF, 11.

*H138. NINETEENTH CENTURY ENGLISH NOVEL. *Mr. Elsbree*. First Semester. MWF, 10.

AVAILABLE AT SCRIPPS COLLEGE

I-115. SPENSER. *Mrs. Pizer*. Second Semester. MWF, 11.

*I-116a,b. SHAKESPEARE. *Mr. Gray*. TTh, 3:45-5:00.

*I-143. CHAUCER. *Mr. Armour*. First Semester. TTh, 10 and arranged.

*I-144a,b. THE ROMANTIC POETS. *Mr. Malone*. MWF, 8.

*I-145. MILTON. *Mr. Fogle*. First Semester. M, 3:15-4:05; W, 3:15-5:00.

*I-148. MODERN DRAMA. *Mr. Gray*. Second Semester. MWF, 11.

*I-152a,b. COMPARATIVE LITERATURE. *Mr. Merlan*. W, 4:15-6:05.

I-160. THE WEST IN AMERICAN LITERATURE. *Mr. Foster*. Open to Juniors and Seniors. First Semester. MWF, 11.

I-161. THE SOUTH IN AMERICAN LITERATURE. *Mr. Foster*. Open to Juniors and Seniors. Second Semester. MWF, 11.

Geology

Outstanding equipment includes Leitz and Zeiss research petrographic microscopes, 13 of which are fitted with universal stages; ore, phase contrast, stereoscopic, and stereopolarizing microscopes are available also. Facilities are provided for X-ray diffraction, X-ray fluorescence and emission spectrography, and differential thermal analysis. The department has a Worden Master gravity meter, an Askania torsion magnetometer, and a Clary DE-60 digital computer. Surveying equipment includes Kern field instruments and a Zeiss stereotape. The geology library is excellent. Students are encouraged to use these facilities for their own projects.

Concentration Requirements: Mathematics 3a,b, Chemistry 1a,b or 51, Physics 2a,b or 51a,b, and Geology 103, 106, 153, and 157 or 159.

Pre-Professional Program: In addition to the formal requirements given above, a student who expects to go on to graduate work in geology should plan to do additional studies in the geology library and laboratories, and in the field. In so far as his program permits, he should endeavor to include Chemistry 57 or 158, Mathematics 30, 31, 32, or 50, and acquire a reading knowledge of French, German, or Russian.

1. INTRODUCTION TO GEOLOGY. *Mr. Baird and Mr. McIntyre*. No prerequisites. Fee: \$6.00. Each Semester. MWF, 10.

53. GEOLOGY OF NORTH AMERICA. *Mr. Zenger*. Prerequisite: Geology 1. Fee: \$6.00. Second Semester. Lectures, MWF, 10; laboratory, W, 1:15-4:05.

103a,b. CRYSTALLOGRAPHY AND MINERALOGY. *Mr. McIntyre and Mr. Baird*. Fee: \$6.00 each Semester. Lectures, WF, 11; laboratory, TF, 1:15-4:05.

106a,b. STRUCTURAL AND FIELD GEOLOGY. *Mr. Zenger and Mr. Baird*. Prerequisites: Geology 53 and Geology 103 completed or in progress. Fee: \$6.00 each semester. Lectures, TTh, 10; laboratory, Th, 1:15-4:05 (first semester only). Saturdays and Spring vacation must be kept free for field work.

153a,b. PETROLOGY. *Mr. Baird and Mr. McIntyre*. Prerequisite: Geology 103. Fee: \$6.00 each semester. Lectures, TTh, 9; laboratory, M, 2:15-5:05; W, 1:15-4:05.

157. PALEONTOLOGY. *Mr. Zenger*. Fee: \$6.00. First Semester. Lectures, MW, 9; laboratory, T, 1:15-4:05; and arranged.

159. STRATIGRAPHY. *Mr. Zenger*. Prerequisite: Geology 53. Fee: \$6.00. Second Semester. Lectures, MW, 9; laboratory, T, 1:15-4:05; and arranged.

181. DESIGN AND ANALYSIS OF GEOLOGICAL EXPERIMENTS. *Mr. McIntyre*. Consent of instructor. First Semester. Lectures, TTh, 10 and arranged.

199. SELECTED TOPICS IN GEOLOGY. *Staff*. Special work in certain advanced subjects not treated in other courses of the department is available to students of proven ability. Prerequisite: department approval. Fee: \$6.00. May be repeated for credit. Arranged.

German Language and Literature

A program of concentration in German consists of a minimum of six courses numbered over 100 and two additional courses in German or in a related field selected according to the student's needs and interests.

Language Laboratory: For first year students, language laboratory periods are included within the five-hour schedule. Second year students are required to take one 45-minute laboratory period per week in addition to the scheduled three meetings. Second year students should sign up for the laboratory period of their choice at Room 13, Holmes Hall, on Thursday, Friday and Saturday of the opening week. Laboratory fee: \$2.00 per semester.

1a-b. ELEMENTARY GERMAN. *Staff*. Emphasis on the acquisition of basic reading skills and comprehension. Laboratory, arranged: fee \$2.00 per semester. MTWThF, 8, 10 (two sections each); MTWFS, 9 (one section).

51a,b. INTERMEDIATE GERMAN. *Staff*. Intensive reading of selected German works, with collateral reading in the field of the student's individual interest. Continued practice in German conversation. Prerequisite: German 1a-b or equivalent. MWF, 9, 10, 11.

81a,b. ADVANCED CONVERSATION AND COMPOSITION. *Mr. Lindberg*. Drill in written and oral expression. Prerequisite: German 1 and 51. In 1962-63, 81a will be open only to students on the Semester Abroad Program. (81b omitted in 1962-63.)

ADVANCED COURSES

109a,b. GERMAN LITERATURE OF THE NINETEENTH CENTURY. *Mr. Lindberg*. Reading and interpretation of plays, poetry, and narrative prose which reflect the development of German literature from Romanticism to the emergence of Naturalism. Prerequisite: German 51b or equivalent. MWF, 9. (Offered in alternate years; offered in 1962-63.)

113a,b. GERMAN CLASSICS OF THE EIGHTEENTH CENTURY. *Mr. Lindberg*. A study of German literature from Enlightenment through Storm and Stress to the ideal of Humanitaet, as illustrated by the major works of Lessing, Schiller, Goethe. Prerequisite: German 51b or equivalent. TThS, 9. (Offered in alternate years; not offered in 1962-63.)

158. MODERN GERMAN LITERATURE. *Mr. Brueckner*. The development of German literature from 1880 to the present with reference to the political and social changes during that period. Second Semester. TThS, 9.

160a,b. SURVEY OF GERMAN LITERATURE. *Mr. Baumann*. The development of German literature from earliest times to the end of the nineteenth century. MWF, 11.

190a,b. READING AND RESEARCH. *Staff*. Arranged. (Omitted in 1962-63.)

Government

General Requirement: Government 1 is normally prerequisite for all advanced courses, but the department invites students who have had considerable work elsewhere in the social sciences to confer with staff members regarding enrollment in any course desired.

Lower Division Prerequisites for Concentration: The following courses should be completed by the end of Sophomore year: History 1a,b; Government 1; Economics 51. The introductory course in Sociology or Anthropology is strongly recommended and also the elementary course in statistics and a semester of accounting.

Program of Concentration: A minimum of six upper division courses, each student's program being arranged in consultation with the departmental staff, but including in every case Government 191 and completion of an acceptable Senior thesis. A reading and speaking knowledge of at least one modern foreign language is strongly advised, particularly for students having any intention of seeking positions in foreign service or of engaging in graduate study.

Pre-legal students majoring in Government should strive for breadth and balance in their programs including, however, in each case the course in Constitutional Law and at least a semester's work in accounting.

Honors Study: Students interested in undertaking a program of honors study under the general plan approved by the faculty are invited to formulate a draft proposal and discuss it with the staff of the department.

Three-Year M.A. Program: Proximity and cooperation between Pomona College and the Claremont Graduate School make it possible for students

so interested to plan, beginning with their Junior year, a three-year program enabling them to earn both the B.A. and M.A. degrees. Any student interested in pursuing such a program is invited to confer with members of the department.

AMERICAN ECONOMIC AND POLITICAL INSTITUTIONS

The Departments of Government and Economics cooperate in offering introductory courses, Government 1 and Economics 51, designed to give the student an understanding of America's political and economic institutions. Although each course meets one of the distribution requirements for graduation, the combination of two courses is recommended for a better comprehension of basic American institutions. For descriptions of each course, see the departmental offerings.

1. INTRODUCTION TO GOVERNMENT AND POLITICS. *Staff*. The study of basic governmental institutions and theories about government. Politics as an aspect of human behavior in domestic and foreign affairs both in the United States and abroad. Normally prerequisite to all upper division courses in Government. Satisfies State requirement in American institutions. First Semester: MWF, 8, 9; TThS, 8, 10. Second Semester: MWF, 8, 9, 11; TThS, 8, 9.

53. CONTEMPORARY POLITICS. *Mr. McDonald and Mr. Vieg*. Analysis of crucial issues of the day in national and international affairs. Extensive use of representative periodicals, both domestic and foreign. Half-course. Each Semester. WF, 1:15.

125. COMPARATIVE POLITICAL SYSTEMS. *Mr. Armacost*. Comparative analysis of political forces and governmental institutions mainly in Britain, France, Germany and the Soviet Union. First Semester. MWF, 9.

126. THE COMMUNIST WORLD, II. *Mr. Neal*. The foreign and domestic policies of the Soviet Union and the Communist bloc since World War II. Second Semester. TThS, 9. (See also companion course at Claremont Men's College, P127, THE COMMUNIST WORLD, I. First Semester.)

127. ASIATIC GOVERNMENT AND POLITICS. *Mr. Vieg*. Analysis of the political systems of India, Japan, Pakistan and Indonesia against the background of the struggle between modernity and tradition in contemporary Asia. First Semester. TThS, 9.

131. PARTIES, PRESSURE GROUPS, AND PUBLIC OPINION. *Mr. Vieg*. The role of parties, interest groups, propagandists and voters in the American electoral and legislative processes. First Semester. TThS, 10.

136. POLITICAL BIOGRAPHY. A study of the lives and letters of selected major figures in the realm of politics, both American and foreign, Oriental as well as Occidental. (Omitted in 1962-63.)

140. PUBLIC ADMINISTRATION AND PUBLIC POLICY. *Mr. Blair*. A study of the role of administrative officials in the making of public policies and the management of the public business of the national, state and local levels. Second Semester. MWF, 11.

151. INTRODUCTION TO INTERNATIONAL RELATIONS. *Mr. Armacost*. Geographical and historical determinants of the contemporary state system and the current struggle for power and security. Examination of attempts to achieve world order through understanding, organization and law. Second Semester. MWF, 10.

155. FOUNDATIONS OF AMERICAN FOREIGN POLICY. *Mr. Armacost*. The constitutional bases, the crucial periods, and the development of the underlying principles of U.S. foreign policy, with particular attention to the formulation and implementation of contemporary policy. First Semester. MWF, 11.

158. FOREIGN POLICY OF THE SOVIET UNION. *Mr. Neal*. Analysis of continuity and change in Soviet foreign policy since the Bolshevik Revolution, with primary emphasis on developments under Khrushchev. Second Semester. (Omitted in 1962-63.)

161. CONSTITUTIONAL LAW. *Mr. Flournoy*. Nature and extent of constitutional power; separation of powers doctrine; federal-state relations; powers of Congress and the Presidency; political and civil rights; role of law in American society. First Semester. MWF, 10.

171. POLITICAL THEORY. *Mr. McDonald*. The major political theories and theorists of the Western heritage and their relevance to political values and institutions, primarily in Europe and America. Second Semester. TTh, 2:40-3:55.

191,192. READINGS AND RESEARCH IN GOVERNMENT. *Staff*. Tutorial programs of independent (including honors) study. All concentrators are required, normally in the fall term of their Senior year, to enroll for one course and, as a part thereof, to write a Senior thesis. Otherwise open only to students who have clearly demonstrated ability to work under self-direction. Each Semester. Arranged.

193,194. READINGS AND RESEARCH IN INTERNATIONAL RELATIONS. *Staff*. Tutorial programs of independent (including honors) study. Open only to students who have clearly demonstrated ability to work under self-direction. Each Semester. Arranged.

195. SENIOR SEMINAR IN INTERNATIONAL RELATIONS. *Mr. Armacost*. Integration of historical, economic and political aspects of the field, with emphasis upon theory. Open to non-concentrators by permission. Second Semester. W, 2:15-4:05 and arranged.

AVAILABLE AT CLAREMONT MEN'S COLLEGE

P120. NATURE AND PROBLEMS OF FEDERALISM. *Mr. Diamond*. First Semester. WF, 1-2:15.

- P123. LATIN-AMERICAN POLITICS. *Mr. Cope*. First Semester. MWF, 9.
- P127. THE COMMUNIST WORLD, I. *Mr. Neal*. First Semester. MWF, 10.
(See Pomona's Government 126, THE COMMUNIST WORLD, II. Second Semester.)
- P131. BUSINESS LAW. *Mr. Fick*. Second Semester. TThS, 10.
- P170. THEORIES OF AMERICAN DEMOCRACY. *Mr. Diamond*. Second Semester. MWF, 11.

AVAILABLE AT CLAREMONT GRADUATE SCHOOL

(Open to qualified Seniors with the consent of the instructor.)

- 210, 211. POLITICAL PHILOSOPHIES. *Messrs. Barrett, Jordan, McDonald, Schneider*. Both Semesters.
- 220, 221. CONSTITUTIONAL LAW AND JUDICIAL BEHAVIOR. *Mr. Jordan*. Both Semesters.
- 224, 225. GOVERNMENT REGULATION OF BUSINESS. *Mr. Fick*. Both Semesters.
230. CALIFORNIA POLITICS AND LEGISLATION. *Mr. Flournoy*. First Semester.
232. PARTIES, PRESSURE GROUPS, AND PUBLIC POLICY. *Mr. Vieg*. Second Semester.
240. ADMINISTRATIVE ORGANIZATION. *Mr. Blair*. First Semester.
243. LOCAL GOVERNMENT AND ADMINISTRATION. *Mr. Blair*. Second Semester.
251. INTERNATIONAL POLITICS. *Mr. Neal*. First Semester.
254. AMERICAN FOREIGN POLICY. *Mr. Neal*. Second Semester.
256. DIPLOMACY AND MILITARY POWER. *Mr. Rood*. Second Semester.

WASHINGTON SEMESTER PROGRAM

A limited number of Pomona students are able to participate in the Washington Semester program conducted by American University, which affords the opportunity of intensive study of the governmental process in Washington, D.C. At American University's invitation, Pomona College is entitled to a quota of four students annually during the fall semester. The major advantage offered by the program is the opportunity to witness personally the operation of the government in its many aspects, as well as to participate in the Washington Semester Seminars, which bring leading officials of the legislative, executive and judicial branches of the government together for discussions with the

participating students. The selection of the four Pomona students who shall represent the college is made on a competitive basis by the Faculty Selection Committee, with preference given to Juniors and those whose academic programs are most suitably supplemented by the opportunities afforded by participation in the Washington Semester program. Under a cooperative agreement, tuition is paid in the regular manner to Pomona College while charges for board and room are paid in Washington, D.C. Candidates selected defray their own costs for travel and other expenses. Students interested in the program are invited to consult with the chairman of the Department of Government, who serves as local representative.

History

Courses in history are designed to interest students in all areas of study. Only a few are intended specifically for concentrators in history. History 1, or its equivalent, is the usual preparation for other courses in history. Sophomores are welcome in most courses, particularly in History 100.

Concentration: The courses in a program of concentration in history should follow a coherent pattern and be planned carefully in consultation with a member of the History Department. All concentrators will write three comprehensive examinations near the end of the Senior year. Two of these will deal with historical periods to be selected by the student from the following: Ancient History; Europe, 312-1648; Europe since 1648; the United States; the Far East. The third examination will consist of two parts dealing with: (1) the method and philosophy of history; and (2) a topic approved by the department. Examples of such topics are: the intellectual or the cultural history of a specific period or region; a significant phase of national or regional history; a segment of economic or diplomatic history; maritime history. Members of the department have an approved list. In order to prepare themselves properly for the examinations, students are expected to take History 1a,b; 100a,b; 140; 190; and at least four other courses in history or a closely related subject. Since the fields are broad, equal familiarity with all their aspects is not expected. The department believes that independent reading is an important supplement to formal courses in preparation for the examinations. In addition to the comprehensive examinations, each concentrator will be expected to write a major paper of satisfactory quality, a requirement commonly completed in connection with History 190.

The study of foreign languages is strongly recommended, and all students in History are urged to work in this area. Students considering

graduate study should remember that a reading knowledge of one foreign language is normally required for the M.A. and of two foreign languages for the Ph.D.

Honors Program: The department urges qualified students to undertake programs of Honors Study. These involve independent study under the direction of a member of the department in place of part of the usual program of formal courses.

Joint Concentrations: Consult the chairman of the department for information about joint concentrations in History and English, Government, Philosophy, or Religion.

1a,b. WESTERN CIVILIZATION: ITS HISTORY AND WORLD CONTEXT. *Staff.* A survey of the political, religious, intellectual, and economic development of Europe, the expansion of European influence over the world, and the consequent inter-action of civilizations. Special attention will be given to Western contacts with Asia. First Semester: from Ancient Greece to the end of the Middle Ages; Second Semester: from the Renaissance to the present. Lectures for entire class, TTh, 10, and sections of two hours each arranged.

100a,b. ENGLAND AND THE UNITED STATES. *Mr. Gleason and Mr. Kemble.* The political, economic, and cultural evolution of Great Britain and the United States with some attention to the Empire and the Commonwealth. Open to Sophomores. 100b satisfies the State requirement in American History. MWF, 11.

101. GREECE. *Mr. Carroll.* A survey from the prehistoric age until the Roman conquest with special emphasis on the city-state and democracy. Second Semester. MWF, 9. (Offered in alternate years; offered in 1963-64.)

102. ROME. *Mr. Carroll.* The Republic and the Empire from the founding of the city until the sixth century A.D. Second Semester. MWF, 9. (Omitted in 1962-63.)

103. THE MIDDLE AGES. *Mr. Learnihan.* A survey of political, intellectual, and religious developments during the transition from Mediterranean to European civilization, from the sixth to the fourteenth century. First Semester. TThS, 9. (Offered in alternate years; not offered in 1962-63.)

104. MEDIEVAL INSTITUTIONS. *Mr. Learnihan.* A study in some depth of selected political, intellectual, and religious institutions of the Middle Ages. First Semester. TThS, 9. (Offered in alternate years; offered in 1962-63.)

106. TUDOR AND STUART ENGLAND. *Mr. Gleason.* The major political, religious, economic, and intellectual achievement of Tudor and Stuart England. The course is designed for concentrators in English as well as for those in History. Second Semester. MWF, 2:15. (Offered in alternate years; not offered in 1962-63.)

107. GREAT BRITAIN, 1760 TO 1960. *Mr. Gleason*. The development of British society in the two centuries since the accession of George III. The period since 1945 is given special attention. The course is designed for concentrators in English as well as those in History. Second Semester. MWF, 8. (Offered in alternate years; offered in 1962-63.)
108. THE RENAISSANCE AND REFORMATION. *Mrs. Davies*. A study of the transition from medieval to modern Europe; from the fourteenth to the seventeenth century. Second Semester. MWF, 9. (Offered in alternate years; offered in 1962-63.)
110. REVOLUTIONARY EUROPE. *Mr. Poland*. A survey of political, economic, and intellectual developments in Europe between 1700 and 1870, emphasizing the decline of the old regime, the revolutionary upheavals between 1789 and 1848, and the nineteenth century consolidation of nation states. Second Semester. TThS, 8. (Offered in alternate years; not offered in 1962-63.)
113. DIPLOMACY AND STATECRAFT, 1870-1960. *Mr. Meyer*. The international policies of the great powers: their motivations, their major spokesmen, and their results seen in relation to major issues of world history during the last century. First Semester. MWF, 10.
114. RUSSIA. *Mr. Poland*. A study of the growth of Russia, emphasizing the political, economic, social, and intellectual development from Peter the Great to the outbreak of the Revolution, the course of the Revolution, and the development of Soviet society since 1921. First Semester. TThS, 8.
115. THE FRENCH REVOLUTION. *Mr. Poland*. A study of eighteenth century life, with special attention to the institutions of the old regime, the Enlightenment and programs of reform, and the French Revolution of 1789. Second Semester. TThS, 8. (Offered in alternate years; offered in 1962-63.)
116. INTELLECTUAL HISTORY OF ANCIENT AND MEDIEVAL EUROPE. *Mr. Learnihan*. A study of the formation of the ideas and ideals significant in politics, religion, and literature from classical times to the end of the Middle Ages. Second Semester. TThS, 9. (Offered in alternate years; not offered in 1962-63.)
117. INTELLECTUAL HISTORY OF MODERN EUROPE. *Mr. Learnihan*. A study of the formation of the ideas and ideals significant in politics, religion, and science from Machiavelli to Marx. Second Semester. TThS, 9. (Offered in alternate years; offered in 1962-63.)
118. ECONOMIC GROWTH IN MODERN EUROPE. *Mrs. Davies*. Problems of economic development from the first Industrial Revolution to the twentieth century, with special reference to Western Europe. First Semester. MWF, 9. (Offered in alternate years; offered in 1962-63.)

119. EUROPE IN TRANSITION, 1890-1935. *Mr. Meyer.* A cultural and ideological analysis of Western history in a crucial period: from the confident culmination of nineteenth century imperialism to the twentieth century conflict between individualism and totalitarianism. Second Semester. MWF, 10.

121. AMERICAN CIVILIZATION, 1815-1900. *Mr. Kemble.* A study of significant aspects of the political, economic, and cultural history of the United States in the nineteenth century as reflected in a series of selected movements, institutions, events and personalities. Second Semester. MWF, 9.

122. COLONIAL AMERICA, 1607-1763. *Mr. Adair.* The political, economic, and intellectual history of the thirteen British Colonies in North America. First Semester. MWF, 11. (Offered in alternate years; offered in 1962-63.)

123. THE AMERICAN NATION, 1763-1815. *Mr. Adair.* A study of the achievement of independence by the United States and the establishment of the republic. First Semester. MWF, 11. (Offered in alternate years; not offered in 1962-63.)

124. THE UNITED STATES IN THE TWENTIETH CENTURY. *Mr. Niven.* The political, economic, and social institutions of the period, 1900-1946, as reflected in the Square Deal, the New Freedom, Normalcy, and the New Deal. Second Semester. MWF, 11.

126. CALIFORNIA. *Mr. Kemble.* The economic, cultural, and political development of the region from its discovery to the present. Second Semester. MWF, 2:15. (Offered in alternate years; not offered in 1962-63.)

127. AMERICAN FOREIGN RELATIONS, 1776-1898. *Mr. Campbell.* The diplomacy of the Revolution, the War of 1812, the Civil War, and the emergence of the United States as a world power. First Semester. TTh, 1:15-2:30.

130. MODERN MARITIME AND NAVAL HISTORY. *Mr. Kemble.* A study of the development of sea power and oceanic commerce from the fifteenth century to the present. Second Semester. MWF, 2:15. (Offered in alternate years; offered in 1962-63.)

135. LATIN AMERICA. *Mr. Bray.* An historical survey of the Latin American nations, especially Mexico, Cuba, Venezuela, Colombia, Peru, Bolivia, Chile, Argentina, and Brazil. Particular attention is given to the interplay of social, economic, political, and ideological forces which are shaping the contemporary Latin American world. First Semester. MWF, 9.

140. THE STUDY OF HISTORY. *Mr. Learnihan.* An introduction to the methods and philosophies of history through a consideration both of the problems of historical study and of major historians of the past. Each Semester. TTh, 2:40-3:55.

190. SENIOR SEMINAR. *Staff*. Guidance is provided on the essay required of all Seniors concentrating in History and on the synthesis requisite for the comprehensive examination. First Semester. F, 1:15-3:05 and arranged.

191. READING AND RESEARCH IN HISTORY. *Staff*. Individual programs of reading on significant historical topics or fields. Permission of the member of the department with whom the reading is to be done must be obtained prior to registration. Each Semester. Course or half-course. May be repeated. Arranged.

195. INDEPENDENT STUDY. *Staff*. Individually arranged programs of reading and study, with papers and examinations as the programs may require. Open to qualified students for work during the term, the Pomona Semester Abroad, or the summer.

AVAILABLE AT CLAREMONT MEN'S COLLEGE

H123. RUSSIAN INTELLECTUAL HISTORY. *Mr. Rogers*. First Semester. TThS, 9.

H124. RUSSIA AND ASIA. *Mr. Rogers*. Second Semester. TThS, 9.

H125. GREEK HISTORY. *Mr. O'Connell*. First Semester. MWF, 9.

H126. WESTERN WORLD IN THE FIRST CENTURY, A.D. *Mr. O'Connell*. Second Semester. MWF, 9.

H127. EUROPEAN INTELLECTUAL HISTORY — 19TH CENTURY. *Mr. Rogers*. First Semester. TThS, 10.

H128. TWENTIETH CENTURY EUROPEAN INTELLECTUAL HISTORY. *Mr. Rogers*. Second Semester. TThS, 10.

H151. AMERICAN CIVILIZATION. *Mr. Dunbar*. First Semester. MWF, 8.

H152. AMERICAN CIVILIZATION. *Mr. Dunbar*. Second Semester. MWF, 8.

AVAILABLE AT HARVEY MUDD COLLEGE

105, 106. HISTORY OF SCIENCE. *Mr. Rae*. Th, 1:15-3.

AVAILABLE AT SCRIPPS COLLEGE

III-117a. THE COLONIAL MIND. *Mr. Adair*. First Semester. MWF, 11.

III-117b. THE AMERICAN RENAISSANCE. *Mr. White*. Second Semester. MWF, 11.

III-129a. ASIA AND AMERICA. *Mr. Gould*. First Semester. MW, 1:15-2:30.

III-130a. FRANCE IN THE 19TH CENTURY. *Mr. Brogden*. First Semester. MWF, 10.

III-130b. FRANCE IN THE 20TH CENTURY. *Mr. Brogden*. Second Semester. MWF, 10.

AVAILABLE AT CLAREMONT GRADUATE SCHOOL

A number of graduate courses and seminars are open to qualified Seniors with the consent of the instructor and the approval of the chairman of the department. See the Claremont Graduate School catalog for course descriptions and prerequisites.

International Relations

The concentration in International Relations is governed by a faculty committee representing the several departments offering courses required for the concentration. For 1962-63 members of the Committee on International Relations are Messrs. Meyer (chairman), Armacost, Ch'en, Cook, Lindberg, Scaff, Vieg.

Seven courses of upper division work are to be taken from the offerings listed below. Within this list, while some electives are allowed, a number of courses are specifically required. Lower division prerequisites for courses in the upper division should be met in the Freshman and Sophomore years. These are Government 1, Economics 51 and 52, and History 1; students desiring to emphasize international social and economic development should take Sociology 51 in addition.

Proficiency in at least one modern foreign language is required. This requirement is normally satisfied by completing one of the following courses: French 81b; Spanish 81b, Russian 81b, or German 51b, plus one semester of a third-year course in German. In the case of Oriental and other languages students are advised to consult with the chairman as to requirements. Wherever possible foreign language study should be undertaken in the Freshman year, but in any event the second year language course must be successfully completed by the end of the Junior year. Those majors with already strong experience in a language may be excused from taking courses after an oral and written examination administered by a member of the appropriate department; this examination must be passed no later than April 15 of the Junior year.

A Senior thesis involving intensive research in some aspect of international relations of special interest to the concentrator is to be submitted to the Secretary of the Committee by April 15 of the Senior year. Concentrators are urged to make use of departmental reading courses in the fall of the Senior year in preparation for organizing and writing the paper. In order to encourage background reading in the summer, the Committee requires submission of a tentative title for the Senior thesis by May 15 of the Junior year.

Under carefully defined conditions, the concentrator in International Relations is encouraged to participate in the Pomona Semester Abroad. Secure detailed description from faculty adviser or the committee chairman.

The comprehensive examination consists of two written examinations, and an oral examination before two members of the Committee. Some part of the examination may be in the foreign language of the student's choice.

For specific descriptions of the courses listed below see respective departmental listings:

I. Core courses: (5 courses required)

1. History 113. DIPLOMACY AND STATECRAFT, 1870-1960.
2. Government 151. INTRODUCTION TO INTERNATIONAL RELATIONS.
3. Economics 123. INTERNATIONAL ECONOMICS.
4. Government 155. FOUNDATIONS OF AMERICAN FOREIGN POLICY.
5. Government 195. SENIOR SEMINAR IN INTERNATIONAL RELATIONS.

II. Two courses under either A or B:

A. Regional courses:

EUROPE: Government 125; History 107, 117, 118, 119, 130.

THE SOVIET AREA: Economics 195; Government 126, 158; History 114.

LATIN-AMERICA: Anthropology 100; History 135; (at Claremont Men's College: Politics 123, "Latin American Politics").

THE FAR EAST: Oriental Affairs 103b, 107, 108, 109, 121, 122, 123; Government 127.

AFRICA: Anthropology 101; Sociology 165.

B. Economic and social development:

Economics 153. ECONOMIC DEVELOPMENT.

Sociology 153. COMPARATIVE SOCIAL MOVEMENTS.

Sociology 165. AFRICAN SOCIAL STRUCTURE AND SOCIAL CHANGE.

Sociology 190A. PROBLEMS OF WORLD DEMOGRAPHY.

Note: Government 193, 194, "Readings and Research in International Relations," may be applied above according to the nature of the work undertaken.

Mathematics

Equipment: The department has excellent library facilities. It has a Bendix G-15 digital computer and several desk calculators; further large scale computing facilities are provided by membership in the Western Data Processing Center.

Requirements for Concentration: Mathematics 30, 31, 32, or 50 a,b; 100; 110; and at least five additional upper division courses. Concentrators in Mathematics are urged to take several courses in a field in which mathematical applications are of importance. Philosophy 142 and 147 are also recommended.

Pre-professional Program: Students planning to work for advanced degrees in Mathematics should take Mathematics 130a,b and 170a,b, and should acquire a reading knowledge of German, Russian, or French.

Placement: All Freshmen who wish to enroll in a mathematics course other than Mathematics 2 should take the examination in Mathematics on the Saturday preceding registration. The score on this examination, as well as other factors, will be used in assigning students to Mathematics 3, 30, or 50. Students who have passed the Advanced Placement Examination of the College Entrance Board with a high score may with departmental approval receive credit for all or part of Mathematics 30, 31, 32, or 50a,b.

Honors Program: Students interested in honors study should consult a member of the Department for information concerning this program.

2. FUNDAMENTALS OF MATHEMATICS. *Mr. Tolsted.* This course is designed primarily for majors outside the physical sciences. It includes logic, the development of the number system, algebra, probability, Boolean algebra, and Non-Euclidean geometry. Prerequisite: High school algebra and geometry. Second Semester. TThS, 10.

3a,b. INTRODUCTION TO COLLEGE MATHEMATICS. *Staff.* While this course prepares students for Mathematics 30 or 50, it is comprehensive enough to provide in itself a general mathematical background. It includes college algebra, trigonometry, and an introduction to analytic geometry and calculus, elementary logic, set theory, and probability theory. Prerequisite: High school mathematics including advanced algebra, or Mathematics 2. MWF, 9, 11.

30. ANALYTIC GEOMETRY AND CALCULUS I. *Staff.* Mathematics 30, 31, and 32 comprise a standard integrated course in analytic geometry and calculus. Prerequisite: Mathematics 3a or a satisfactory score on the placement examination. First Semester. MWF, 9, 11.

31. ANALYTIC GEOMETRY AND CALCULUS II. *Staff*. Continuation of Mathematics 30. Second Semester. MWF, 9, 11.

32. ANALYTIC GEOMETRY AND CALCULUS III. *Staff*. Continuation of Mathematics 31, including introductions to elementary differential equations, vectors, and matrices. (Omitted in 1962-63; offered in 1963-64.)

50a,b. ANALYTIC GEOMETRY AND CALCULUS (ACCELERATED). *Staff*. This course covers the material of Mathematics 30, 31, and 32 in two semesters. Prerequisite: Mathematics 3a or a satisfactory score on the placement examination. Not open for credit to students who have had Mathematics 30, 31, 32. MTWThF, 9; MWF 11 and TTh, 8.

100 (formerly 70). INTRODUCTION TO ABSTRACT ALGEBRA. *Mr. Tellman and Mr. Tolsted*. An introduction to the study of number systems, congruences, groups, algebraic equations, determinants, matrices, and linear systems. Prerequisite: Mathematics 30 or 50a or permission of the instructor. First Semester: MWF, 10. Second Semester: MWF, 8.

110. DIFFERENTIAL EQUATIONS. *Mr. Tolsted and Mr. Yale*. A general course in the theory and application of ordinary differential equations. Prerequisite: Mathematics 32 or 50. First Semester: TThS, 9, 10. Second Semester: MWF, 8.

120. NUMERICAL ANALYSIS. *Mr. Cooke*. Numerical solution of algebraic, transcendental, and differential equations, approximate integration; basic principles of digital computers, programming of the department's Bendix G-15 computer. Prerequisite: Mathematics 100 and 110 must precede or accompany this course. First Semester. MWF, 9, and afternoon hours arranged.

124. STATISTICAL INFERENCE. *Mrs. Myhre*. Foundations of probability theory. Survey of the probability laws most often encountered in applications. Estimation of parameters, confidence intervals, and tests of hypotheses. Prerequisite: Mathematics 32 or 50. Not open for credit to students who have taken Mathematics 151. Second Semester. TThS, 8. (Offered at Harvey Mudd College in 1962-63.)

126. THEORY OF GAMES AND LINEAR PROGRAMMING. *Mr. Tellman*. An introduction to the mathematical theory of games of strategy and the theories of linear and dynamic programming, with applications to military, economic, business, and political problems. Prerequisite: Mathematics 100. Second Semester. MWF, 10.

130a,b. ADVANCED CALCULUS. *Mr. Hamilton*. Set theory, the real number system, limits, sequences, continuity, the Riemann integral, improper integrals, uniform convergence, Taylor and Fourier series, partial derivatives, multiple integrals. Prerequisite: Mathematics 100 and 110. TThS, 10.

141a,b. GEOMETRY AND TOPOLOGY. *Mr. Greever*. Selected topics from the foundations of geometry, projective geometry, transformation groups, point-set topology, and combinatorial topology. Prerequisite: Mathematics 100.

First Semester: MWF, 9. Second Semester: MWF, 8. (Offered at Harvey Mudd College in 1962-63 as Mathematics 141, 142.)

151. PROBABILITY. *Mr. Yale*. An introduction to the mathematical theory of probability from a set-theoretic point of view. Topics will include combinatorial analysis, random variables, expected values, probability distributions, and the central limit theorem. Prerequisite: Mathematics 100. Not open for credit to students who have taken Mathematics 124. First Semester. TThS, 9.

152. STATISTICS. *Mrs. Myhre*. Continuous distributions, moment functions, tests of hypotheses, estimation of parameters, confidence intervals. Prerequisite: Mathematics 151. Not open for credit to students who have taken Mathematics 124. Second Semester. TThS, 9.

155. NUMBER THEORY. *Mr. Jaeger*. Properties of integers, congruences; Diophantine problems, Euler's theorem, Fermat's theorem, elementary group theory, classical construction problems. Prerequisite: Mathematics 32 or 50. First Semester. MWF, 8. (Offered at Claremont Men's College in 1962-63.)

160. APPLIED MATHEMATICS. *Mr. Tellman*. Topics selected from vector analysis, boundary value problems of mathematical physics, integral equations, partial differential equations, difference equations, calculus of variations. Prerequisite: Mathematics 100 and 110. Second Semester. TThS, 9.

170a,b. ABSTRACT ALGEBRA. *Mr. Yale*. Groups, fields, vector spaces and matrices, Galois theory. Prerequisite: Mathematics 100. MWF, 11.

181. FUNCTIONS OF A COMPLEX VARIABLE. *Mr. Tellman*. Algebra and calculus of functions of a complex variable, infinite series, Cauchy's Theorem, Taylor and Laurent expansions, conformal mapping, entire functions, meromorphic functions. Prerequisite: Mathematics 130 or permission of the instructor. First Semester. TThS, 10.

182. FUNCTIONS OF A REAL VARIABLE. *Mr. Ives*. Basic convergence theorems and the Lebesgue integral. Topics from the theory of functions of bounded variation, differentiation of integrals, Fubini's theorem, and applications to Fourier series and LP spaces. Prerequisite: Mathematics 130. Second Semester. MWF, 3:15. (Offered at Harvey Mudd College in 1962-63.)

198. SEMINAR AND RESEARCH. *Staff*. Independent reading and research, and seminars in selected topics of higher mathematics are available in this course to students of proved ability. Prerequisite: Departmental approval. Course or half-course. Arranged.

199. SUMMER RESEARCH. Open to students of proved ability by invitation. A written report and an oral presentation of the results of the summer's work are required.

GRAPHIC SCIENCE. See Physics 7a,b.

AVAILABLE AT CLAREMONT MEN'S COLLEGE

100. HIGHER ALGEBRA AND THEORY OF EQUATIONS. *Mr. Jaeger*. Similar to Mathematics 100 at Pomona College. Prerequisite: Mathematics 30 or 50a or permission of the Instructor. Second Semester. MWF, 8.

AVAILABLE AT HARVEY MUDD COLLEGE

138. MATHEMATICAL LOGIC. *Mr. Ives*. Methodology of logic and the deductive sciences. Consistency and completeness of formal systems with particular emphasis on problems in the foundations of mathematics. Prerequisite: Philosophy 142 or consent of the instructor. Second Semester. F, 1:15, and arranged.

Military Science

Pomona College, in conjunction with Claremont Men's College, maintains a General Military Science Unit, Senior Division, of the Army Reserve Officers' Training Corps, established under the National Defense Act. The primary purpose is to provide officers for the United States Army Reserve; it also constitutes a source of junior officers for the Regular Army. ROTC graduates are commissioned in the Army branch for which they are individually considered best qualified. Graduates of the program who enter active military service for two years have a four-year obligation in the Reserve (total of six years). Those who are given six months of active duty for training remain in the Ready Reserve until the eighth anniversary of the receipt of their commissions. Students who demonstrate special proficiency are eligible for appointment in the Regular Army through the Distinguished Military Graduate Program. Usually Regular Marine Corps commissions are also optionally available.

The General Military Science ROTC program consists of subjects general in scope so that the Department of the Army may appoint second lieutenants in combat, administrative, and technical services as required.

The courses include both classroom and out-of-doors instruction. During the Junior year (MS III) attendance at a three-day pre-summer camp field exercise is required, normally conducted at Fort Irwin, the United States Army and Desert Training Center, north of Barstow, California. Successful completion of the Army Physical Fitness Test is also required.

The instructors in the department are officers of the United States Army assigned for duty at the College by the Department of the Army. Uniforms, equipment and texts for the course are issued to the students without charge.

The four-year program is divided into the Basic Course (two years) and the Advanced Course (two years). Enrollment in the Basic Course is on a voluntary basis. Enrollment in the Advanced Course is on a selective basis. After a student has enrolled in either the basic or advanced course, the completion of the second year of that particular course (in coalignment with his academic course) becomes a prerequisite for graduation. Last day for withdrawal from the first year Basic Course is the date established by the college calendar as the last day for entering classes.

Normally the four-year program for an incoming Freshman without prior military service or ROTC training is:

Freshman Year	MS I (Basic)
Sophomore Year	MS II (Basic)
Junior Year	MS III (Advanced)
Summer Vacation	ROTC Summer Camp (6 weeks)
Senior Year	MS IV (Advanced)
Graduation	Appointment as 2nd Lieutenant United States Army Reserve

The Basic Course is open to all physically fit male students who are United States citizens. ROTC enrollment does not interfere with participation by students in sports or in other college activities.

Previous military service furnishes a basis for credit for Basic Course instruction according to the individual's length of service, type of training, and honorable discharge from the Armed Forces of the United States.

Enrollment in the Advanced Course (MS III and MS IV) is limited to selected members who have completed the Basic Course, or have received equivalent credit. A student entering the Advanced Course must sign an agreement with the United States Government that he will devote five (5) class hours per week to Military Science during the academic year; that he will attend an ROTC Summer Camp of six (6) weeks duration between his MS III and MS IV courses; and that he will accept an appointment as a second lieutenant in the United States Army Reserve, if tendered. In consideration of this Advanced Course agreement, students receive cash allowances from the Government equivalent to a scholarship of about \$640.00.

After the completion of one academic semester, regularly enrolled students may sign a "deferment agreement." They are then deferred

from induction under the UMT&S Act until completion of both their ROTC and academic courses provided they remain in good standing. A college Freshman, eligible for MS II or MS III because of previous training, may be deferred if selected for enrollment and authorized a period of non-participation in ROTC classes.

Credit for Military Science is assigned as follows:

Basic Course (two years: 1a-b; 52a-b): One Course

Advanced Course, Junior Year (103a-b): One Course

Advanced Course, Senior Year (154a-b): One Course

The three courses in Military Science may be taken in addition to or as part of the thirty-two courses required for graduation. (See "Amount of Work," under Academic Regulations.) A student involuntarily withdrawn from Military Science may petition for credit for that part of the work which he has completed.

1a-b. MILITARY SCIENCE I (Basic). *Staff.* Organization of the Army and ROTC; Individual Weapons and Marksmanship; U.S. Army and National Security. Drill; plus Academic Elective during either semester to be selected from approved list. The year's work is credited as a half-course. Class, T, 8, 9, or Th, 8, 9; and Drill, M, 1:15-2:05.

52a-b. MILITARY SCIENCE II (Basic.) *Staff.* American Military History; Map and Aerial Photograph Reading; Introduction to Operations and Basic Tactics; Drill. The year's work is credited as a half-course. Class, TTh, 8, 9, or 10; and Drill, M, 1:15-2:05.

103a-b. MILITARY SCIENCE III (Advanced). *Staff.* Leadership; Military Teaching Principles; Branches of the Army; Small Unit Tactics and Communications; Pre-camp Orientation; Physical Fitness Training; Drill; plus Academic Elective during either semester to be selected from approved list. The year's work constitutes one course. Credit also for related academic subject. Class, MWF, 8, 9; Drill, M, 1:15-2:05.

MILITARY SCIENCE III ROTC SUMMER CAMP (Advanced). *Camp Staff.* Leadership; Marksmanship and Crew Served Weapons; Chemical, Biological, and Radiological Defense and First Aid; Maps, Aerial Photographs and Terrain Appreciation; Signal Communications; Tactics; Marches and Bivouacs; Drills and Parades; Physical Training and Organized Athletics. Six weeks between the third and fourth year. Conducted at Ft. Lewis, Washington.

154a-b. MILITARY SCIENCE IV (Advanced). *Staff.* Operations; Logistics; Army Administration; Military Law; Role of the United States in World Affairs; Service Orientation; Drill; plus Academic Elective during either semester to be selected from approved list. The year's work constitutes one course. Credit also for related academic subject. Class MWF, 8, 9; Drill, M, 1:15-2:05.

Music

Courses open to non-concentrators: Courses designed primarily for non-concentrators include Introduction to Music (53, 54) and Materials of Music (4a,b). Ability to read music is required for the sequence of courses in the History of Musical Style (120, 121, 122, 123); ability to read music and basic piano ability are required for Elementary Theory (1). Qualified students may be admitted by special action of the department to any course in music. Applied Music (vocal and instrumental) and the performing organizations (College choir, orchestra, band, chamber music, and the Glee Clubs) are open to all students. Those undecided about concentration in music are advised to take Elementary Theory (1) immediately, in order to clarify their choice of concentration and to avoid crowding their Senior year programs.

Concentration: The concentration program is designed both for the pre-professional musician preparing for a career within the field, and for the student who may have other vocational plans but wishes to major in music while an undergraduate.

Requirements for Concentration: The following courses are required of all students concentrating in music: Elementary Theory (1a,b), Intermediate Theory (55a,b), Advanced Theory (107a,b), and the two-year sequence in the History of Musical Style (120, 121, 122, 123).

The passing of an examination in Basic Musicianship, testing skills in keyboard harmony, ear training, and sight reading, is required of all concentrators in music, and should be completed as early as possible. Printed information concerning the examination may be obtained at the Music Department office.

In addition to the required courses listed above, one of the following areas of concentration is required:

Applied Music: Two lessons per week in upper division Applied Music during the Junior and Senior years, frequent performance in Student Recitals, and performance of a Senior Recital.

Composition: Orchestration (113) and Free Composition (158).

General Music: Credit study in Applied Music and continuing participation in performing organizations during the Junior and Senior years.

Secondary School Music: Orchestration (113), Conducting (117, 118), and Rudiments in the Playing of Orchestra and Band Instruments (119), with as much work as possible in piano, voice, and the performing

organizations. In conjunction with the Claremont Graduate School, Pomona College offers a five-year program in which music majors who intend to teach in public schools may meet the requirements for the appropriate teaching credential. Such students will normally elect Secondary School Music as their area of undergraduate concentration. They should consult with the Claremont Graduate School about the State requirements as early as possible.

All concentrators are expected to take part in the performing organizations, and to attend all concerts and recitals presented by the department.

All concentrators are strongly urged to acquire a reading knowledge of at least one foreign language.

Transfer Students: Students transferring from other institutions as Juniors should take Elementary Theory (Music 1) or its equivalent before coming to Pomona, and should possess basic piano ability. They will be given a theory placement test to determine their proper course assignment and their transfer credit from previous theory study in college.

THEORY, HISTORY, AND LITERATURE

1a,b. ELEMENTARY THEORY. *Mr. Loucks*. Diatonic harmony, simple free counterpoint, emphasis on original work in small forms. Passing of an examination in basic musicianship required. Prerequisite: ability to read music and basic piano ability. MWF, 8. Laboratory sections for ear training, sight singing, and keyboard harmony twice weekly. MF, 11; or TTh, 10.

4a,b. MATERIALS OF MUSIC. *Miss Smith*. Basic theory for the layman: melody, harmony, counterpoint, rhythm, form. Study of significant styles. Ability to read music important. Each Semester. MWF, 10.

53. INTRODUCTION TO MUSIC I. *Mr. Loucks and Staff*. Technique of intelligent listening, principles of musical structure, and historical survey of major composers and styles through the study of representative works of Beethoven and his predecessors. No previous musical experience required. First Semester. Lectures, MW, 2:15; discussion sections, M, 3:15; or W, 3:15; or F, 2:15.

54. INTRODUCTION TO MUSIC II. *Mr. Russell and Staff*. Continuation of Music 53, with the study based upon the works of composers since Beethoven. No prerequisite. Second Semester. Lectures, MW, 2:15; discussion sections, M, 3:15; or W, 3:15; or F, 2:15.

55a,b. INTERMEDIATE THEORY. *Mr. Kohn*. Advanced harmony and further work in counterpoint. Original work in small forms, with emphasis on the styles of Bach, Mozart, Beethoven, and the Romanticists. Passing of an examination in basic musicianship required. Prerequisite: Music 1. MWF, 11. Laboratory sections for ear training, sight singing, and keyboard harmony twice weekly: M, 2:15 and F, 1:15; or TTh, 1:15.

107a,b. ADVANCED THEORY. *Mrs. Briggs*. Contrapuntal forms; experience in free composition; keyboard work. Prerequisite: Music 55. MWF, 10.

113a,b. ORCHESTRATION AND INSTRUMENTATION. *Mr. Blanchard*. Scoring for orchestra, band, and vocal groups. Opportunity for public performance of outstanding work. Prerequisite: Music 55. Half-course each semester. Arranged.

117. CHORAL CONDUCTING. *Mr. Russell*. Technique of conducting, repertoire, score analysis, rehearsal planning, chorus building. Prerequisite: choral experience, basic piano and sight singing ability, knowledge of elementary theory. Permission of instructor required. Half-course. First Semester. T, 2:15-4:05. (Offered in alternate years; not offered in 1962-63.)

118. INSTRUMENTAL CONDUCTING. *Mr. Fiske*. Baton technique, beat formation in all rhythms, score reading, rehearsal problems, repertoire. Permission of instructor required. Half-course. Second Semester. F, 1:15-3:05. (Offered in alternate years; not offered in 1962-63.)

119a,b. RUDIMENTS IN THE PLAYING OF ORCHESTRAL AND BAND INSTRUMENTS. *Miss Smith and Mr. Blanchard*. First Semester: strings; Second Semester: winds. Half-course each semester. TTh, 1:15. (Offered in alternate years; offered in 1962-63.)

The following four courses (120, 121, 122, 123) constitute a two-year sequence in the history of musical style. Study by formal analysis, class performance, and guided listening, of a repertoire selected to exemplify the respective periods stylistically and chronologically, with supplementary readings in the basic works of history and reference. Permission of the instructor required for non-concentrators. Concentrators must take the sequence in order, one course per semester.

120. MUSIC OF THE MIDDLE AGES AND THE RENAISSANCE. *Mr. Kohn*. First Semester. MWF, 9.

121. MUSIC OF THE BAROQUE AND PRE-CLASSICAL PERIODS. *Miss Smith*. Second Semester. MWF, 9.

122. MUSIC OF THE CLASSICAL PERIOD AND THE 19TH CENTURY. *Mr. Fiske*. First Semester. TThS, 9.

123. MUSIC OF THE 20TH CENTURY. *Mr. Loucks*. Second Semester. TThS, 9.

158a,b. FREE COMPOSITION. *Mr. Kohn*. Studies in the elements of contemporary techniques, and original work intended to develop the student's sense of structure and style. Permission of instructor required. Arranged.

AVAILABLE AT SCRIPPS COLLEGE

II-69. NINETEENTH CENTURY MUSIC. *Mr. Collins*. Year course. TTh, 1:15-2:45.

II-114. BEETHOVEN AND THE ROMANTIC MOVEMENT. *Mr. Collins*. First Semester. TTh, 3:15-4:45.

II-115. TWENTIETH CENTURY STYLES. *Mr. Collins*. Second Semester, TTh, 3:15-4:45.

GRADUATE STUDY IN MUSIC

The Claremont Graduate School offers work leading to the Master of Arts degree with majors in Applied Music, Music History, Composition, and Music Education.

PERFORMING ORGANIZATIONS

Open to all students in the college. Credit is granted for satisfactory participation in each performing organization (the Glee Clubs excepted) on a cumulative basis: four semesters' participation is the equivalent of one half-course. No credit is given for less than four semesters' participation. Credit may be aggregated among the several organizations, but may not be had for more than two organizations in any one semester. Grades are on the pass-fail basis. Participation may be repeated for credit.

50A. COLLEGE CHOIR. *Mr. Russell*. The study of classic and contemporary choral music through rehearsals leading to public performance. Continued membership is contingent upon satisfactory performance in a singing test held in October on music practiced during the opening weeks of the year. New members admitted in first semester only. Fee to cover cost of music: \$2.00. MTWF, 12:30-1:05; Th, 11:30-12:20. (Women do not meet on T; men do not meet on M.)

50B. ORCHESTRA. *Mr. Fiske*. A study of major works of orchestral repertoire and application of the principles of orchestral routine through public performance. Two periods of attendance weekly. Additional section rehearsals at option of director. Permission of instructor required. TTh, 4:15.

50C. BAND. *Mr. Russell*. First Semester: Football Band. W, 4:15, and the Varsity games. Second Semester: Concert Band. Th, 6:30-8:30 p.m.

50D. CHAMBER MUSIC. *Mr. Fiske*. The study of important chamber music literature through analysis and performance. Open only to advanced instrumentalists. Permission of instructor required. M, 1:15-3:05 and arranged.

MEN'S AND WOMEN'S GLEE CLUBS. *Mr. Russell*. The Glee Clubs, student-managed, offer opportunity for performance in a small extra-curricular ensemble, both on and off campus. Concurrent membership in College Choir essential. New members admitted by tryout only, at the opening of the college year. Normal schedule: two practices weekly. No credit.

APPLIED MUSIC

Open to all students in the college. Applied Music may be taken either with credit or without, subject to the following provisions:

General: All students must pass qualifying examinations to establish eligibility for credit, since no credit is given for elementary study, and no credit is given for work in Applied Music taken elsewhere. Credit is granted for Applied Music study on a cumulative basis. One lesson per week carried through four semesters, or two lessons per week carried through two semesters, is the equivalent of one-half course. Credit is given only upon completion of each such half-course. All private lessons are one half-hour in length. All study in Applied Music, whether for credit or not, is recorded on the student's college transcript.

Limitations: Students become eligible for one-half course of Lower Division credit in Applied Music by passing the Lower Division qualifying examination. For further credit they must take Elementary Theory (Music 1) or Materials of Music (Music 4) either preceding or accompanying the additional work in Applied Music. Intermediate Theory (Music 55) must precede or accompany all work for Upper Division credit. Limit of credit in Applied Music toward the Bachelor of Arts degree: 2 courses.

Qualifying Examinations: Students working for credit in Applied Music are enrolled in two categories: Lower Division (Music 11), and Upper Division (Music 111). The passing of a qualifying examination is required for entrance into either category. These examinations are normally given near the beginning of each semester, and near the close of the college year. Arrangements for the examination should be made through the Applied Music instructor. Printed information concerning the qualifying examinations may be obtained at the Music Department office.

Fees for instruction and for the use of practice rooms are listed on pages 39 and 40.

While instruction in Applied Music is organized on a semester basis, students may begin lessons at any time, at pro-rated tuition. However, a late registration fee will be charged after the first four weeks of any semester to defray the cost of the clerical expenses involved in making the change.

VOICE, *Mr. Allard, Mrs. Briggs.*

ORGAN, *Mr. Blanchard.*

PIANO, *Mr. Kohn, Mr. Pierce, and Mr. Reifsnyder.*

VIOLIN AND VIOLA, *Mr. Fiske.*

VIOLONCELLO, *Miss Jean.*

STRING BASS, *Mr. Gregory.*

HARP, *Mrs. Remsen.*

FLUTE, *Mr. Stevens.*

OBOE, *Mrs. Geller.*

BASSOON, *Mr. Massie.*

CLARINET, *Mr. Bloch.*

FRENCH HORN, *Mr. Pyle.*

TRUMPET, TROMBONE, *Mr. Tyler.*

Oriental Affairs

A student concentrating in Oriental Affairs must take Oriental Affairs 51, 52a-b, 115, and 116. At least six other courses of upper division work are required. Some of these may be taken in other of The Claremont Colleges, subject to the approval of the Department.

51. THE CULTURAL LEGACIES OF EAST ASIA. *Mr. Ch'en.* A survey of the humanistic achievements of China and India, and their diffusion in other lands in East Asia. Second Semester. TThS, 10.

52a-b. INTRODUCTION TO THE CHINESE LANGUAGE. *Mr. Thompson.* A course for beginners in the Chinese language, with emphasis on the analysis of written characters, translation and reading of simple texts. MWF, 10; S, 11.

103a,b. HISTORY OF CHINA. *Mr. Thompson.* General survey of China's cultural history. The complexities of the problem of present day China in the light of her ancient cultural heritage. MWF, 9.

107. HISTORY OF JAPAN AND KOREA. The evolution of Japanese and Korean cultural, social, economic, and political institutions since prehistoric times. (Omitted in 1962-63.)

108. HISTORY OF ASIAN DIPLOMACY. Diplomatic relations of the Western Powers with Asian countries. (Omitted in 1962-63.)

109. HISTORY OF CULTURAL RELATIONS BETWEEN CHINA AND THE OCCIDENT. A rapid survey of the religious, intellectual, literary, and artistic relations and interchanges between China and the Western World from Greco-Roman times to the middle of the nineteenth century. (Omitted in 1962-63; offered in 1963-64.)

110. HISTORY OF SOUTHEAST ASIA. *Mr. H. B. Smith.* A survey of the historical development and cultural impact of the peoples of Southeast Asia from earliest times to the present. First Semester. MWF, 8.

114. READINGS IN ASIAN LITERATURE. *Mr. Thompson.* A study of outstanding Asian literary works in English translation with the aim of a deeper appreciation of Oriental life and thought. Second Semester. TThS, 10.

115. INTERMEDIATE CHINESE. *Mr. Thompson.* Reading of simple texts in Kuo-Yü and written exercises. First Semester. T, 1:15-3:05; ThS, 10.

116. CLASSICAL CHINESE. *Mr. Ch'en.* For students who have taken Oriental Affairs 115 or equivalent. Grammar, reading of selections from ancient and medieval authors, and written exercises. Second Semester. TTh, 1:15-3:05.

121. CONTEMPORARY EASTERN ASIA. Introduction to the historical background and current problems of China, Japan, Korea, and Southeast Asia. (Omitted in 1962-63.)

122. CONTEMPORARY SOUTHERN ASIA. Introduction to the historical background and current problems of India, Pakistan, Ceylon, Burma, and the Himalayan states. (Omitted in 1962-63.)

123. EASTERN ASIA IN THE NINETEENTH CENTURY. Traditional patterns of life and the institutions in China and Japan, and to a lesser extent also of Korea, Siberia, and Southeast Asia. The impact of the West upon those countries. (Omitted in 1962-63.)

191. TOPICS IN EAST ASIAN CULTURAL HISTORY. *Mr. Ch'en.* Lectures and discussions on topics chosen from the following: literature, drama, art theory, and evolution of ideas. Second Semester. Arranged.

195. READINGS IN ORIENTAL AFFAIRS. *Staff.* Prerequisite: one course in Oriental Affairs and permission of instructor. Course or half-course. Each Semester. May be repeated for credit. Arranged.

AVAILABLE AT CLAREMONT GRADUATE SCHOOL

History 247, 248. CULTURAL HISTORY OF SOUTH AND SOUTHEAST ASIA. *Mr. Ruyter.*

History 250. SEMINAR ON IMPACT OF MODERN CIVILIZATION ON SOUTH AND SOUTHEAST ASIA. *Mr. Ruyter.*

History 251, 252. SEMINAR IN THE HISTORY OF EAST ASIA. *Mr. Peake.*

History 253, 254. SEMINAR IN MODERN HISTORY OF EAST ASIA. *Mr. Peake.*

History 262. POLITICAL AND ECONOMIC DEVELOPMENT IN SOUTH ASIA. *Mr. Goodall.*

Government 265. FOREIGN POLICIES IN SOUTHEAST ASIA. *Mr. Gould.*

Philosophy

Concentration: Six upper division courses, including A) three from the Philosophy 110-114 series; and B) Philosophy 192. Philosophy 142 and 191 are strongly recommended for all concentrators. Those intending to do graduate work should acquire a reading knowledge of both French and German as early as possible.

With departmental approval, two courses in another field may be substituted for philosophy courses, if the student is competent in that field and if the work is directly relevant to his program in Philosophy.

Honors Study: Philosophy concentrators are urged to consider Honors Study. To work out the details of a specific program, consult a member of the department.

Joint Concentrations: Consult a member of the department for information about joint concentrations in Philosophy-Literature, Philosophy-History, and Philosophy-Religion.

Introductory courses, designed to acquaint the student with the principles of philosophical criticism and with important documents representative of Western thought.

50. PROBLEMS OF PHILOSOPHY. *Staff.* An introduction to the methods and problems of philosophy through a consideration of some major original works. First Semester: MWF, 9; TThS, 8, 9; special section for Freshmen, MWF, 10. Second Semester: MWF, 10, 11; TThS, 10; TTh, 1:15-2:30.

55. READINGS IN THE HISTORY OF PHILOSOPHY. *Mr. Jones.* Extensive reading of selected philosophical works. A core of reading will be discussed in weekly seminars; in addition, each student will undertake further directed reading. Permission of the instructor required. Enrollment limited to twelve students. First Semester. W, 1:15.

History of Philosophy Series. Five semester courses designed to present the history of western philosophy through primary source readings, lectures, and discussions.

110. CLASSICAL PHILOSOPHY. *Mr. Greenlee and Mr. Sontag.* The beginnings of philosophical thought, including the Pre-Socratics, Plato, and Aristotle (Mr. Greenlee); The Stoics and Epicureans, Plotinus and Hellenistic thought (Mr. Sontag). First Semester. TThS, 10.

111. MEDIEVAL AND RENAISSANCE PHILOSOPHY. *Mr. Saunders.* The medieval development of the western philosophical tradition and a study of the intellectual currents of the Renaissance, with reference to the origin and development of humanism and scholasticism. First Semester. TTh, 1:15.

112. MODERN PHILOSOPHY. *Mr. Fogelin and Mr. Greenlee.* An examination of two major movements in the 17th and 18th centuries: a) Continental Rationalism, including Descartes, Spinoza, and Leibnitz (Mr. Fogelin); and b) British Empiricism, including Locke, Berkeley, and Hume (Mr. Greenlee). Second Semester. MWF, 9.

113. THE NINETEENTH CENTURY. *Mr. Jones and Mr. Fogelin.* A study of the philosophic thought of the nineteenth century with emphasis upon the historical context. The writings of Kant, Hegel, Marx, Nietzsche, and J. S. Mill will be given major consideration. First Semester. MWF, 10.

114. CONTEMPORARY PHILOSOPHY. *Mr. Beckner and Mr. Sontag.* A study of the major movements in twentieth century philosophy, including a) some representatives of western rationalism, including Dewey, the Logical Positivists, Wittgenstein (Mr. Beckner); and b) Existentialist thought, its origin and its influence in literature, theology and philosophy, through a reading of Kierkegaard and Sartre (Mr. Sontag). Second Semester. TThS, 9.

The following series is designed to make available to the general student courses in philosophy that explore the foundations of a variety of disciplines, and examine their methods and cultural implications.

140. PHILOSOPHY OF ART. *Mr. Greenlee.* An analysis of the concept of art and of selected problems concerning aesthetic value, experience, taste, criticism and expression. Readings from traditional and contemporary sources. First Semester. TTh, 2:40-3:55.

141. PHILOSOPHY AND THE SOCIAL SCIENCES. *Mr. Jones.* A critical study of the basic metaphysical and epistemological presuppositions of the social sciences, including history. Among other matters considered are the function of theory in these fields, the nature of evidence, and the problem of "objectivity." First Semester. MWF, 9.

142. LOGICAL THEORY. *Mr. Fogelin and Mr. Beckner.* An examination of the principles of critical thinking, using symbolic methods where appropriate. Topics considered: functions and structure of language, fallacy, deduction, empirical and evaluative argument. First Semester. WF, 1:15 and arranged.

143. APPROACHES TO ETHICS. *Mr. Fogelin.* An examination of the main approaches in ethical theory, in terms of their ability to illuminate and aid in the solution of concrete moral problems. First Semester. MWF, 11.

144. PHILOSOPHY OF RELIGION. *Mr. Sontag.* A discussion of the major issues in religion which have been given philosophic treatment, the existence and nature of God, the problem of evil, faith, mysticism, and the religious influence on history. Readings from classical and contemporary sources. Second Semester. TTh, 1:15.

145. PHILOSOPHY AND POETRY. *Mr. Jones.* A study of four philosophical poets: Lucretius, Dante, Goethe, and T. S. Eliot. (Offered in alternate years; not offered in 1962-63.)

146. PHILOSOPHY OF HISTORY. *Mr. Greenlee*. An examination of the nature of historical knowledge and the various theories concerning the interpretation and significance of history. (Offered in alternate years; not offered in 1962-63.)

147. PHILOSOPHY OF SCIENCE. *Mr. Beckner*. An analysis of the nature of scientific method, theory, and innovation through an examination of selected topics in the history of science. Second Semester. TThS, 10.

148. PHILOSOPHICAL PSYCHOLOGY. *Mr. Sontag and Mr. Beckner*. A study of one classical and two modern psychological theories, including Aristotle or Plotinus, Freud and Jung (*Mr. Sontag*); and a systematic study of two contemporary philosophies of mind, behaviorism and phenomenology (*Mr. Beckner*). Second Semester. TThS, 9.

149. ORIENTAL PHILOSOPHY. *Mr. Hutchison*. Philosophies of India, China and Japan. Representative men, ideas and traditions studied in documents in translation. Second Semester. MWF, 10.

The following courses are designed for concentrators and for students with previous work in philosophy.

190. RESEARCH PROJECTS. *Mr. Greenlee and Staff* (First Semester); *Mr. Beckner and Staff* (Second Semester). Independent reading and study on a topic of the student's choice, normally culminating in a major research paper. Course or half-course. (With permission, 190 may be taken as a Summer Reading Course.) Each Semester. Arranged.

191. SPECIAL TOPICS: MEANING AND SIGNIFICATION. *Mr. Greenlee and Mr. Fogelin*. An introduction to the general theory of signs and to the metaphysics of meaning, with emphasis on such topics as the nature of meaning, the definition and classification of signs, the concept of symbolic form, and the relation of sign theory to semantics. Second Semester. MWF, 9.

192. SENIOR SEMINAR. *Mr. Jones and Staff*. Discussion and critical analysis of student, faculty, and current published papers on a variety of philosophical topics. First Semester. W, 3-5.

CRITICISM OF ART. See Art 150.

POLITICAL THEORY. See Government 171.

AVAILABLE AT CLAREMONT MEN'S COLLEGE

H103. AESTHETICS. *Mr. Doyle*. First Semester. MWF, 8.

H141. PHILOSOPHY OF POLITICS AND LAW. *Mr. Doyle*. Second Semester. MWF, 8.

H142. MODERN EUROPEAN RATIONALISM AND SCEPTICISM. *Mr. Doyle*. First Semester. MWF, 11.

H143. CONTEMPORARY PHILOSOPHY. *Mr. Doyle*. Second Semester, MWF, 11.

H145. PHILOSOPHY OF RELIGION. *Mr. Derfer*. Second Semester. TThS, 10.

AVAILABLE AT HARVEY MUDD COLLEGE

Hum. 151. SCIENCE AND MAN'S GOALS. *Mr. Popkin*. First Semester.

Math. 138. LOGICAL THEORY. *Mr. Ives*. Second Semester. F, 1:15 and arranged.

Phil. 102. HISTORY OF PHILOSOPHY: MODERN. *Mr. Popkin*. Second Semester.

AVAILABLE AT SCRIPPS COLLEGE

IV-55. PHILOSOPHY OF RELIGION. *Mr. Tapp*. First Semester. MWF, 10.

IV-57. LOGIC. *Mr. Barrett*. First Semester. MWF, 11.

IV-158. SYMBOLS, VALUES AND STANDARDS. *Mr. Barrett*. Second Semester. MWF, 11.

IV-159a,b. HISTORY OF MODERN PHILOSOPHY. *Mr. Barrett*. Year course. MWF, 10.

AVAILABLE AT CLAREMONT GRADUATE SCHOOL

A number of graduate courses and seminars are open to qualified Juniors and Seniors with the consent of the instructor and the approval of the chairman of the department. See the Claremont Graduate School catalog for course descriptions and prerequisites.

Physical Education

A student is required to take two Physical Education Activities per semester during his Freshman and Sophomore years, and one activity per semester during his Junior and Senior years. Activity courses are marked on a "Pass-Fail" basis, and successful completion of all work is required for graduation.

PROFESSIONAL PREPARATION

Although the College does not offer a concentration in Physical Education, certain professional courses are offered for those students interested in the field, provided there is sufficient demand. Election of these courses, followed by a year of graduate work, may qualify the student

for the General Credential with a major or minor in Physical Education. It may also qualify the student for further study in physical therapy, occupational therapy, and recreation. Interested students should confer with a member of the Physical Education Department during the Freshman year.

It is suggested that the four years of physical education activities be so selected as to give the individual the opportunity for both technical skills and leadership training in a wide range of activities.

THEORY

50. INTRODUCTION TO PHYSICAL EDUCATION. *Mr. Malan*. A consideration of the nature of the profession and related fields of health and recreation, including a study of professional leaders, publications, and opportunities. First Semester. TTh, 8.

119a,b. (Women) METHODS OF TEACHING TEAM SPORTS. *Staff*. Analysis of techniques and methods of presenting team sports. Prerequisite: minimum skill in the following physical education activities: basketball, softball, speedball, volleyball. Half-course. Each Semester. TTh, 9 and arranged. (Omitted in 1962-63; offered in 1963-64.)

125. ANALYSIS OF PLAY AND COMMUNITY RECREATION. *Miss Cawthorne*. The nature and function of play in meeting the physical, mental, emotional, and social needs of people of all ages in both physical education and leisure time pursuits. An analysis of the organization and administration of community recreation departments, programs, and leadership. Second Semester. MWF, 8. (Offered in 1962-63; omitted in 1963-64.)

126. PRINCIPLES OF HEALTH EDUCATION. *Mr. Sage*. A consideration of factors influencing physical and mental health including a survey of voluntary, governmental and school health programs and their implications for the individual as a member of society. First Semester. MWF, 8. (Omitted in 1962-63; offered in 1963-64.)

129. KINESIOLOGY AND CORRECTIVE PHYSICAL EDUCATION. *Miss Cawthorne*. An analysis of joint and muscular mechanisms, study of body mechanics and the causes, prevention and correction of physical defects. Methods of physical examination and prescription of exercises. Prerequisite: Zoology 51 or permission of instructor. First Semester. MWF, 8 and arranged. (Offered in 1962-63; omitted in 1963-64.)

130a,b. THE HISTORY AND TEACHING OF DANCE. *Mrs. Hypes*. Analysis of the problems and techniques of teaching rhythms at the elementary or high school level. First Semester: historical background of folk dance and methods of teaching elementary rhythms and folk dance. Second Semester: historical background and methods of teaching contemporary dance at the secondary school level. One hour lecture, two hours laboratory. Half-course

each semester. Lecture, T, 2:15, laboratory, F, 1-3. (Offered in 1962-63; omitted in 1963-64.)

140a,b. INDIVIDUAL AND DUAL SPORTS. *Mr. Sage and Staff.* Analysis of the theories and techniques of teaching the activities of tennis, badminton, swimming, archery, and other physical education activities common to both men and women. Half-course each semester. TTh, 1:15 and arranged. (Offered in 1962-63; omitted in 1963-64.)

154. HISTORY AND PRINCIPLES OF PHYSICAL EDUCATION. *Mr. Malan.* A study of Physical Education philosophy including the scientific bases and the historical development of the profession, the formulation of guiding principles, and the relation of those principles to current practice. Second Semester. MWF, 8. (Omitted in 1962-63; offered in 1963-64.)

191a,b. (Men) METHODS OF TEACHING ATHLETIC ACTIVITIES. *Staff.* A study of the theories and techniques used in teaching and coaching the activities of football, basketball, track and field, and baseball. Admittance by permission of the department. Half-course each semester. TTh, 1:15 and arranged. (Omitted in 1962-63; offered in 1963-64.)

MEN'S ACTIVITIES

Students engage in an elective program of physical education activities except as certain limits are imposed by medical and physical examinations and tests and by department requirements. Freshmen are required to participate in an Orientation course. The course is designed to introduce Freshmen to the program of physical activity at Pomona College, to provide opportunity for group and self-testing, and to present experiences in fundamental movement including emphasis on general physical development. In addition, students must demonstrate ability to swim and reasonable skill or experience in at least two individual sports.

The following physical education activities are carried on under supervision of the department. Those marked with an asterisk are conducted in cooperation with the Women's Department:

*archery	*fencing	riding	trampoline
*badminton	*golf	skiing	tumbling
*bowling	gymnastics	swimming & diving	volleyball
*dance	life saving	tennis	weight training
			wrestling

Nominal fees are required each semester of those who select archery, badminton, bowling, fencing, golf, riding, social dance, square dance, skiing, and tennis.

The department conducts a competitive intramural program of sports in season including:

badminton	swimming
basketball	track and field
flag football	volleyball
softball	wrestling

The college program of intercollegiate athletics is an integral part of the program of physical education. No student is permitted to participate in the more strenuous forms of competition without certification by the College Physician that the individual is physically fit for such participation. Opportunities for intercollegiate competition are provided in the following:

baseball	football	swimming
basketball	golf	tennis
cross country	rugby	track and field
fencing	soccer	water polo
		wrestling

Men are registered for activities on the basis of the following course numbers:

Freshmen: 1a-b, 2a-b
 Sophomores: 53a-b, 54a-b
 Juniors: 105 a-b
 Seniors: 107a-b

WOMEN'S ACTIVITIES

Physical examinations are given entering students. Physical activities are allowed or prescribed as the result of these examinations. Participation in a FUNDAMENTAL activity is required one semester of the Freshman year. Students may have freedom of election in other activities but must include by the end of the Sophomore year one individual sport and one dance class. The passing of a swimming test is required for graduation. This should be completed by the end of the Sophomore year.

Freshmen and Sophomores must arrange their activities so that both classes do not fall on the same days.

FUNDAMENTALS: modern dance, body mechanics, body fitness.

TEAM SPORTS: basketball, hockey, speedball, softball, volleyball.

INDIVIDUAL SPORTS: archery, badminton, golf, ice skating, fencing, riding, riflery, roller skating, bowling, tennis, trampoline, swimming.

DANCING: modern, folk, square, social.

RECREATIONAL GAMES: table tennis, paddle tennis, shuffleboard, etc.

Nominal fees are required each semester of those who select archery, badminton, bowling, fencing, golf, ice skating, riding, social dance, square dance, tennis.

Women are registered for activity classes on the basis of the following course numbers:

Freshmen: 11a-b, 12a-b

Sophomores: 63a-b, 64a-b

Juniors: 115a-b

Seniors: 117a-b

Physics

Concentration Requirements: Physics 51a,b; 101a,b; 141; 145; 151a,b; 192; 195; Mathematics 32 or 50a,b; 110; Chemistry 1a,b or 51.

Pre-professional Program: A student planning graduate work in physics should include Physics 143 and 196 and at least one additional upper division course in mathematics. A reading knowledge of German, French or Russian should be acquired.

Laboratory Facilities: Concentrators will be expected to demonstrate facility in laboratory areas of the department. Included are electron microscopy, digital and analog computation, nuclear measurements and cyclotron techniques, magnetic measurements, x-ray diffraction and microscopy, microwaves and optical measurements. This experience is normally obtained in Physics 145 and 192. Additional work may be included in Physics 198 and 199.

1a,b. INTRODUCTION TO PHYSICS. *Mr. Miller.* An introduction to physics through study of the growth of ideas and the scientific method. Supported by appropriate films and demonstrations. Students will be expected to pursue a reading program from current literature and classical references. Intended for those majoring in humanities and social sciences. Admission to 1b without 1a is permitted. Prerequisite: none. MWF, 9.

2a,b. GENERAL PHYSICS. *Mr. Miller and Mr. Fowler*. Intended for those in science areas other than physical science and engineering. One or more lectures each week in common with Physics 1. Monday sections devoted to discussions and analysis. The laboratory parallels that of Physics 51. Prerequisite: Trigonometry. Mathematics 3 preceding or accompanying the course is recommended. Laboratory fee \$6.00. MWF, 9. Laboratory, F, 1:15-4:05.

7a,b. GRAPHIC SCIENCE. *Mr. Grimm*. Engineering graphics, graphic analysis, graphical methods of problem solving, curve fitting, slide rule and desk calculator techniques. NC. Lecture, W, 2:15 or 4:15. Laboratory, any afternoon.

51a,b. GENERAL PHYSICS. *Mr. Ogier and Staff*. For those planning further work in physical science, engineering and other science areas. Prerequisite: Mathematics 3 or concurrent enrollment in Mathematics 30 or 50. Fee: \$6.00. TThS, 8 and one discussion hour arranged. Laboratory, W or Th, 1:15-4:05.

61a,b. GENERAL PHYSICS WITH EXPERIMENTAL ANALYSIS. *Mr. Ogier and Mr. Henke*. Intended for those planning to major in physics and well prepared students in other sciences. Recommended particularly for those planning careers in research. Lectures in common with Physics 51. Discussion and laboratory periods emphasize problem solving through the use of models, optimized experimental design, numerical analysis of data, error analysis and scientific report writing. Prerequisite: Completion or concurrent enrollment in Mathematics 30 or 50. Fee: \$6.00. TThS, 8 and discussion hour arranged. Laboratory, M or T, 1:15-4:05.

101a,b. MODERN PHYSICS. *Mr. Fowler*. Introduction to atomic and nuclear physics. Interaction of radiation and matter. Principles and applications of physical optics. Prerequisites: Physics 2, or 51, or 61, Mathematics 32 or 50 or permission of the instructor. MWF, 11.

141. ELECTRICITY AND MAGNETISM. *Mr. Miller*. Electrostatics, electrodynamics and magnetism. Prerequisites: Physics 101 or permission of the instructor, Mathematics 110 preceding or accompanying the course. First Semester. MWF, 8.

143. ELECTROMAGNETIC THEORY. *Mr. Ogier*. Maxwell field theory with applications to the emission, absorption, scattering and dispersion of electromagnetic radiation. Classical electron theory and special relativity. Prerequisites: Physics 141 and Mathematics 110. Second Semester. MWF, 8.

145a,b. ELECTRICAL AND MAGNETIC ANALYSIS. *Mr. Ogier*. Electrical circuit theory and electronic devices. Electrical and magnetic measurements. Prerequisite: Physics 51 or 61; Mathematics 110 preceding or accompanying the course. Fee \$6.00. Half-course each semester. Lecture, M, 2:15-4:05; laboratory, W, 1:15-4:05.

151a,b. **MECHANICS.** *Mr. Henke.* Application of classical mechanics to the analysis of the motion of systems as applied to problems in physics and engineering. Prerequisites: Physics 51 or 61 and Mathematics 110. TThS, 9.

192a,b. **ADVANCED PHYSICS LABORATORY.** *Staff.* Experimental study of selected areas in physics with emphasis on modern techniques using the equipment of the department. Prerequisite: Physics 145 and departmental approval. Fee \$6.00. Half-course each semester. Th, 1:15-4:05.

195. **THERMODYNAMICS AND STATISTICAL MECHANICS.** *Mr. Henke.* The application of empirical thermodynamic analysis and molecular theory to the study of the properties of matter. Prerequisites: Physics 51 or 61, Mathematics 110. First Semester. MWF, 10.

196. **QUANTUM MECHANICS.** *Mr. Miller.* The Schroedinger equation and application to atomic and nuclear phenomena, perturbation techniques, scattering phenomena, elementary relativistic quantum mechanics. Prerequisites: Physics 101, 141, 143. Second Semester. MWF, 10.

198. **SUMMER RESEARCH.** *Staff.* Open to students of proven ability by invitation. Staff research projects currently in progress include ultra soft x-ray physics, magnetism and magneto-optics, cyclotron physics and associated theoretical analysis. A written report and seminar presentation of the summer's effort is normally required.

199. **SELECTED TOPICS.** *Staff.* Directed research or independent study of advanced subjects not treated in other courses of the department. Available to students of proven ability. Prerequisite: Departmental approval.

Psychology

Two types of concentrations are open in the Psychology Department: General Psychology and Educational Psychology.

Psychology 51 is a prerequisite for all courses except Psychology 106. Psychology 158 is required for all courses numbered 160 or higher.

General Psychology Concentration: This concentration is a study of intelligence and abilities, of work and efficiency, of learning and perceiving, of the personality of children and adults as individuals and in social groups.

Courses required for the concentration are Psychology 158, 160, 161, 162, and 194a,b. With the permission of the department chairman, two courses in Zoology numbered 100 or above may be substituted for any two required courses except 160 and 194a,b.

Students planning on further graduate training leading to careers in professional psychology (e.g., clinical psychology, industrial psychology, vocational rehabilitation, college teaching) are advised to have an adequate preparation in mathematics and the physical sciences and biology.

Educational Psychology Concentration: This concentration is a study of the psychological foundations of the structure and function of education in both the home and school. Its purpose is to give to the student a greater understanding of education as a future career within the liberal arts tradition. The concentration is coordinated with the California State certification requirements and with the Claremont Graduate School internship program leading to credentials.

Courses required for the concentration are Psychology 107, 108, 154, 158, 192, and Education 170. Students who are planning to teach are strongly encouraged to take courses leading to depth of interests and preparation in all three Divisions of the College.

51. INTRODUCTION TO PSYCHOLOGY. *Staff.* An overview of the scientific approach to the study of human development, personality, motivation, and learning. Laboratory is designed to acquaint the students with research techniques and basic principles of the description and quantification of behavior. Fee: \$10.00. First Semester: MWF, 9; laboratory section, T, W, or Th, 2:15-4:05. Second Semester: TTh, 1:15-2:30; laboratory section, W or F, 1:15-3:05.

106. PSYCHOLOGY OF PERSONAL ADJUSTMENT. *Mr. Schneider.* A consideration of the personal dynamics of living a normal life in a complex modern society. Second Semester. MWF, 8.

107. EDUCATIONAL PSYCHOLOGY. *Mr. Faust.* The application of principles of learning and theory of child development to education. First Semester. MWF, 11.

108. CHILD PSYCHOLOGY. *Mr. Faust.* Analysis of theories of personality development and demonstration of methods of studying young children. Second Semester. MWF, 10.

131. ABNORMAL PSYCHOLOGY. *Mr. Keith.* Problems of maladjustment, factors contributing to mental disorders, methods of diagnosis and therapy. Second Semester. MWF, 9.

132. INDIVIDUAL READINGS AND RESEARCH. *Staff.* Permission of the instructor and two courses in psychology are prerequisites. Fee: \$10.00. May be repeated for credit. Course or half-course. Each Semester. Arranged.

134. SELECTED TOPICS IN PSYCHOLOGY. *Staff.* Studies determined by the special interests of students and faculty. Permission required. Offered at the option of the department. Course or half-course. Arranged.

135. APPLIED PSYCHOLOGY. *Staff*. Human factors in engineering problems of space travel, equipment design, and communications. First Semester. TTh, 9 and arranged. (Offered in alternate years; not offered in 1962-63.)

136. PSYCHOLOGY AS APPLIED TO INDUSTRIAL ORGANIZATIONS. *Staff*. A consideration of selection, training, and evaluation procedures for employees and marketing sales and advertising of products. First Semester. TThS, 9. (Offered in alternate years; offered in 1962-63.)

154. SOCIAL PSYCHOLOGY. *Mr. Bell*. Examination of the psychological factors of group behavior, with special emphasis on leadership and group behavior. Second Semester. MWF, 11.

158. EXPERIMENTAL PSYCHOLOGY: TESTS AND PERSONALITY. *Mr. Bell*. A survey of testing theories and procedures as applied to the evaluation and understanding of personality. Fee: \$10.00. First Semester. MWF, 8 and arranged.

159. PHYSIOLOGICAL PSYCHOLOGY. *Mr. Frederick*. Physiological and neural aspects of psychological functions. First Semester. T, 7-9:30 p.m. (Offered in alternate years; offered in 1962-63.)

160. EXPERIMENTAL PSYCHOLOGY: PERCEPTION AND COGNITION. *Staff*. Principles of human perception and thinking with special emphasis on design of representative experiments and analysis of data. Prerequisite: Psychology 158. Fee: \$10.00. Second Semester. Lecture, laboratory and demonstrations. TTh, 10 and arranged.

161. EXPERIMENTAL PSYCHOLOGY: MOTIVATION AND EMOTION. *Staff*. A study of major concepts of motivation and emotional experience. Emphasis in laboratory on basic principles and methods of measurement. Prerequisite: Psychology 160. Fee: \$10.00. First Semester. Lecture and laboratory, TTh, 2:15-4:05. (Omitted in 1962-63.)

162. EXPERIMENTAL PSYCHOLOGY: LEARNING AND PROBLEM SOLVING. *Mr. Faust*. An introduction to the experimental and theoretical issues in human learning and problem solving. Prerequisite: Psychology 160. Fee: \$10.00. Second Semester. Lecture and laboratory, MW, 2:15-4:05.

192. SENIOR RESEARCH PROBLEMS. *Staff*. Each student will plan and conduct a research project under the direction of the staff. Course or half-course. Each Semester. W, 1:15 and arranged. May be repeated for credit.

194a,b. SENIOR TOPICS. *Staff*. A survey of critical readings and research publications. Required of concentrators. Open to others by permission. Each Semester. TThS, 9.

AVAILABLE AT SCRIPPS COLLEGE

IV-106. RESEARCH METHODS IN CHILD DEVELOPMENT. *Mrs. Faust*. First Semester. MWF, 1:15.

IV-110. CHILD DEVELOPMENT. *Mrs. Jones and Mrs. Faust.* Year course. MWF, 11.

IV-112. CHILD STUDY IN THE NURSERY SCHOOL. *Mrs. Jones and Mrs. Westbrook.* Prerequisite: Elementary Psychology and IV-110 or equivalent, or may be taken concurrently with IV-110 by upperclassmen. Year course. MW, 2:15 and three arranged hours in the Nursery School.

Courses are also available at Claremont Graduate School to Seniors with permission.

Religion

Students planning to concentrate in Religion should take Religion 1, 3, 103, 104; two other upper division courses in Religion; and two upper division courses in a related field. For details of the program for Honors Study consult a member of the department.

Joint Concentrations: Consult the chairman of the department for information about joint concentrations in Religion and History or Philosophy.

1. THE BIBLICAL HERITAGE. *Mr. Voelkel.* An historical, critical, and theological study of the dominant themes in the Old and New Testaments. Attention will be given to contemporary interpretations of the Biblical message. First Semester: TThS, 9; Second Semester: MWF, 10, 11.

2. ISSUES IN RELIGIOUS THOUGHT. *Mr. Sontag and Mr. Voelkel* (First Semester); *Mr. Ferm and Mr. Voelkel* (Second Semester). An introduction to some of the central issues in religious thought, including the relation of philosophy, theology, and religion, the nature of God, the relation of faith and reason, the nature of religious language, and interpretations of human nature and its fulfillment. TTh, 1:15-2:30.

3. CATHOLICISM, PROTESTANTISM, JUDAISM. *Mr. Ferm.* An examination of the historical development of and theological variety within Catholicism, Protestantism, and Judaism. The course will be oriented to an understanding of contemporary American religion. Each Semester. MWF, 9.

103. INTERPRETATION OF CHRISTIAN BELIEFS. *Mr. Ferm.* An examination of certain classical and contemporary interpretations of problems in Christian theology: the nature of God, the meaning of Christ, human nature and destiny, providence, freedom, and the church. First Semester. MWF, 11.

104. CONTEMPORARY RELIGIOUS THOUGHT. *Mr. Voelkel.* A study of the nineteenth century background and central figures and trends in contemporary religious thought. First Semester. TThS, 10.

107. CHRISTIANITY AND ITS CRITICS. *Mr. Ferm.* Readings and discussion of analyses of Christian faith by such men as F. Nietzsche, G. B. Shaw, S. Freud, and Bertrand Russell. Consideration will also be given to perspectives on human life drawn from contemporary literature and philosophy. (Omitted in 1962-63.)

108. CHRISTIAN THOUGHT SINCE THE REFORMATION. *Mr. Ferm.* A study of the relation between representative theologians and the social and intellectual history of their time. Essays of the following men will be read: Martin Luther, Blaise Pascal, John Locke, Friedrich Schleiermacher, Jonathan Edwards, John Henry Newman, and Walter Rauschenbusch. Second Semester. W, 1:15-3:05.

111. BIBLICAL CRITICISM AND INTERPRETATION. *Mr. Voelkel.* An examination of selected problems in Old Testament and New Testament criticism and interpretation. Possible topics for study are: the development of the Israelite community, the growth of Hebrew religion, the mission and message of Jesus, the nature of the Gospels, and the theology of Paul. Second Semester. MWF, 11.

122. RELIGION IN AMERICAN CULTURE. *Mr. Ferm.* A study of the theological and institutional history of American religion with special consideration of Puritanism, revivalism, effects of immigration and urbanization, and Fundamentalism. Attention will also be given to the sects and cults peculiar to the American scene. First Semester. W, 1:15-3:05.

142. CHRISTIAN ETHICS. *Mr. Voelkel.* An examination of certain historical and contemporary efforts to interpret the relation of Christian faith to problems in social ethics. Second Semester. TThS, 9.

190. READINGS IN RELIGION. *Staff.* A reading program for upper division students. Admission by permission of the instructor. Course or half-course. Arranged.

AVAILABLE AT CLAREMONT MEN'S COLLEGE

H144. SOCIOLOGY OF RELIGION. *Mr. Meyners.* Second Semester. MWF, 11.

AVAILABLE AT HARVEY MUDD COLLEGE

101. READINGS IN RELIGIOUS CLASSICS. *Mr. Reckard.* First Semester. WF, 1-2:15. (Also listed as H146 at Claremont Men's College.)

AVAILABLE AT SCRIPPS COLLEGE

IV-140a,b. THE RELIGIONS OF MANKIND. *Messrs. Hutchison, Ross, Schneider, Tapp, and Staff.* TTh, 10 and arranged hour.

Romance Languages and Literatures

Concentration: A major in one Romance language is required to take a minimum of six courses numbered over 100. A major in Romance languages, nine courses numbered over 100.

French major: Prerequisite: French 51; required, French 81, French 120a,b.

Spanish major: Prerequisite: Spanish 51; required, Spanish 81, Spanish 120a,b.

Romance Languages major: Prerequisites: French 51, Spanish 51; required, French 81, Spanish 81, French 120a,b and Spanish 120a,b.

Latin and German: Although not required, a knowledge of Latin and German is strongly recommended, particularly for students who contemplate graduate work.

Final Senior examinations: Every concentrator in the department is required to take general oral and written examinations in the appropriate Romance language as follows:

- 1) The Graduate Record Examination.
- 2) A three-hour essay examination on some phase of the culture to test the student's grasp of its civilization and his ability to write correct and effective language.
- 3) A one-hour oral examination to test the student's command of the language.

Extra-Curricular Activities: Students may also participate in the Language Clubs. Women students may elect to reside in *La Maison Francaise* or *La Casa Hispánica* and enjoy the benefits of native speaking environment. Students resident in *La Maison Francaise* must be enrolled in French 51 or a more advanced course; students resident in *La Casa Hispánica* must be enrolled in Spanish 51 or a more advanced course.

Language Laboratory: For first year students, language laboratory periods are included within the regular schedule. Second year students are required to take one 45-minute laboratory period per week in addition to the scheduled three meetings. Second year students should sign up for the laboratory period of their choice at Room 13, Holmes Hall, on Thursday, Friday and Saturday of the opening week. Laboratory fee: \$2.00 per semester.

Language Placement: All students who have had training in a Romance language and who consider further work in the same language are required to consult the department to determine what course they should enter.

FRENCH

1a-b. **ELEMENTARY FRENCH.** *Staff.* Essentials of grammar; written and conversational exercises. A cultural approach based on selected reading material. Laboratory arranged: fee \$2.00 per semester. Qualified students may enter 1b. MTWThF, 9, 10, 1:15, 2:15.

51a,b. **INTERMEDIATE FRENCH.** *Staff.* Extensive class and outside readings of selected cultural and literary texts. Prerequisite: French 1b or the equivalent. MWF, 1:15, 2:15; TThS, 9.

81a,b. **ADVANCED COMPOSITION AND CONVERSATION.** *Staff.* A course designed to develop skill and accuracy in literary composition and oral expression. Prerequisite: French 51 or the equivalent. Required of concentrators. Enrollment limited to fifteen students. MWF, 2:15; TThS, 10.

UPPER DIVISION COURSES

French 51 or the equivalent is required for admission to all advanced courses.

120a,b. **SURVEY OF FRENCH LITERATURE AND CIVILIZATION.** *Mr. Parlier and Mr. Pronko.* A general outline course in the history of French literature from its origin to modern times. First semester, to the end of the eighteenth century; second semester, nineteenth and twentieth centuries. MWF, 10.

124a,b. **LITERATURE OF THE NINETEENTH CENTURY.** *Mr. Leggewie.* An intensive study of the major poets, dramatists, and novelists. First semester, Romanticism; second semester, Realism. (Omitted in 1962-63; offered in 1963-64.)

127. **MODERN FRENCH THEATRE.** *Mr. Pronko.* Study of representative playwrights of today with special emphasis on Claudel, Giraudoux, Sartre, Camus, Ionesco, Beckett. First Semester. MWF, 11.

130. **THE CONTEMPORARY NOVEL.** *Mr. Leggewie.* Study of such outstanding writers as Gide, Mauriac, Proust, Sartre and Camus. First Semester. TTh, 1:15-2:30.

150. **CONTEMPORARY FRENCH POETRY.** *Mr. Parlier.* Study of outstanding poets from Baudelaire to the present. Second Semester. MWF, 11.

153a,b. **LITERATURE OF THE SEVENTEENTH CENTURY.** *Mr. Parlier.* Intensive study of the great masters of the French classical age: Corneille, Molière, Racine. Lesser study of Descartes, Pascal, La Rochefoucauld and others. (Omitted in 1962-63; offered in 1963-64.)

156. LITERATURE OF THE EIGHTEENTH CENTURY. *Mr. Parlier*. A study of the Age of Enlightenment with particular emphasis on Montesquieu, Diderot, Voltaire and Rousseau. (Omitted in 1962-63; offered in 1963-64.)

190. SPECIAL TOPICS. *Staff*. Seminar on a topic or theme in French Literature. Permission of the instructor required. (Omitted in 1962-63; offered in 1963-64.)

192. READING AND RESEARCH IN FRENCH. *Staff*. Open to majors capable of independent study. Permission of instructor and departmental chairman required. May be repeated. Course or half-course. Each Semester. Arranged.

AVAILABLE AT SCRIPPS COLLEGE

I-121. FRENCH LITERATURE OF THE SEVENTEENTH CENTURY. *Mr. Watson*. First Semester. MWF, 2:15.

I-122. FRENCH LITERATURE OF THE EIGHTEENTH CENTURY. *Mr. Watson*. Second Semester. MWF, 2:15.

ITALIAN

1a-b. ELEMENTARY ITALIAN. *Mr. Ricapito*. Essentials of grammar; written and conversational exercises. A cultural approach based on selected reading material. Laboratory arranged: fee \$2.00 per semester. 1b: First Semester, 1962-63. TThS, 10. 1a: First Semester, 1963-64.

81. ADVANCED ITALIAN. *Mr. Ricapito*. Extensive class and outside readings to serve as an introduction to Italian civilization. Conducted in Italian as far as possible. Prerequisite: Italian 1b or the equivalent. Second Semester. TThS, 10.

SPANISH

1a-b. ELEMENTARY SPANISH. *Mr. Young*. Essentials of grammar; written and conversational exercises. A cultural approach based on selected reading material. Laboratory fee: \$2.00 per semester. TWThF, 1:15.

51a,b. INTERMEDIATE SPANISH. *Mr. Ricapito*. Extensive class and outside readings of selected cultural and literary texts. Prerequisite: Spanish 1b or the equivalent. TThS, 9.

81a,b. ADVANCED CONVERSATION AND COMPOSITION. *Mr. Young*. A course designed to develop skill and accuracy in literary composition and oral expression. Prerequisite: Spanish 51 or the equivalent. Required of concentrators. TThS, 9.

UPPER DIVISION COURSES

Spanish 51 or the equivalent is required for admission to all advanced courses.

120a,b. SURVEY OF SPANISH LITERATURE. *Mr. Young*. A general outline course in the history of Spanish literature from its origins to modern times. WF, 2:40-3:55.

170. CERVANTES. *Mr. Ricapito*. A study of the life and works of Cervantes with special attention to *Don Quixote* and its relation to European literature. Second Semester. TTh, 1:15-2:30.

172. THEATRE OF THE GOLDEN AGE. *Mr. Ricapito*. Intensive class study of Lope de Vega, Ruiz de Alarcón, Tirso, and Calderón. First Semester. TTh, 1:15-2:30.

175. LITERATURE OF THE NINETEENTH CENTURY. *Staff*. A study of romanticism and realism. Authors: El Duque de Rivas, Espronceda, Larra Galdos, Valera, and Alas. (Omitted in 1962-63; offered in 1963-64.)

180a,b. THE GOLDEN AGE. *Mr. Ricapito*. The Renaissance, the Baroque and the Neo-Classic periods in Spanish literature. Main topics: First Semester, development of Spanish literary forms, chivalry, humanism, the picaresque, and the Mystics; Second Semester, balladry and the theatre. (Omitted in 1962-63; offered in 1963-64.)

190a,b. CONTEMPORARY SPANISH LITERATURE. *Mr. Young*. The Generation of '98, pre-Civil War figures, and significant authors of the present day. Main writers: Unamuno, Baroja, Valle-Inclán, Benavente, Ortega y Gasset, Juan Ramón Jiménez, Pedro Salinas, Garcia Lorca. (Omitted in 1962-63; offered in 1963-64.)

192. READING AND RESEARCH IN SPANISH. *Staff*. Open to majors capable of independent study to supplement advanced course work. Permission of instructor and departmental chairman required. May be repeated. Course or half-course. Each Semester. Arranged.

AVAILABLE AT SCRIPPS COLLEGE

I-154. SURVEY OF SPANISH AMERICAN LITERATURE. *Mrs. Lamb*. Year course. MWF, 10.

I-174. SPANISH-AMERICAN NOVEL. *Mrs. Lamb*. First Semester. TTh, 2:40-3:55.

RUSSIAN

1a-b. ELEMENTARY RUSSIAN. *Mr. Ulitin*. Essentials of grammar; written and conversational exercises. An introduction to cultural and historical background. Selected reading material. Laboratory arranged: fee \$2.00 per semester. MTWThF, 10.

51a,b. INTERMEDIATE RUSSIAN. *Mr. Ulitin*. Advanced study of grammar. Intensive reading of classic literary texts, conversational practice, translation of scientific articles and essays. Prerequisite: Russian 1a-b or the equivalent. Laboratory arranged: fee \$2.00 per semester. MWF, 11.

81a,b. **ADVANCED RUSSIAN.** *Mr. Ulitin.* Advanced reading and discussion in Russian in a field selected according to the student's needs and interests. Review of special points of grammar. Prerequisite: Russian 51b or the equivalent. MWF, 2:15.

Sociology and Anthropology

Sociology Concentration: Sociology 51 plus six upper division courses in sociology including Sociology 154. Philosophy 141 or Psychology 154 may be substituted for one upper division course in sociology. A course in statistics is recommended, such as Psychology 134.

Anthropology Concentration: Anthropology 53 plus four upper division courses in anthropology. In addition, an anthropology major must take a minimum of four courses in another field, chosen in consultation with his adviser.

Sociology-Anthropology Concentration: Sociology 51 plus four upper division courses in sociology including Sociology 154, and Anthropology 53 plus three upper division courses in anthropology.

Comprehensive Examination: This examination will be in sociology, anthropology, or in a combination of the two fields, according to the student's concentration. The examination is based upon a departmental reading list which is revised annually and distributed to Seniors who are concentrating in the department.

Prerequisites: In sociology normally Sociology 51 or instructor's permission is necessary for courses above 100. In anthropology, Anthropology 53 or instructor's permission is required for courses above 150.

SOCIOLOGY

51. **THE STUDY OF SOCIETY.** *Staff.* The basic characteristics and dynamics of society, culture, and personality as related to man's group behavior. First Semester. TThS, 8; MWF, 9. (Equivalent course, III-51, is offered at Scripps College, MWF, 11.)

52. **SOCIAL PROBLEMS.** *Staff.* An analysis of the major problems of present day society related to individual, family, community, and world disorganization. Second Semester. TThS, 8.

107. **CRIMINOLOGY AND PENOLOGY.** *Mr. Herman.* Types of criminal behavior. Special consideration of juvenile delinquency. Factors contributing to crime and methods of dealing with criminals. First Semester. TTh, 10.

110. RACE RELATIONS. *Mr. Herman*. Problems of minority groups, and programs of action, with emphasis upon the American experience. First Semester. MW, 2:15.

112. THE AMERICAN COMMUNITY. *Mrs. Barrett*. The development of the American community as an ecological, cultural and social system. Supervised observation and field study in the local area. First Semester. MWF, 9.

153. COMPARATIVE SOCIAL MOVEMENTS. *Mr. Scaff*. The ideology and social dynamics of Socialism, Nazism, Communism, and cooperation in Western industrial societies, and selected modern socio-political movements in Africa and Asia. First Semester. MWF, 11. (Omitted in 1962-63; offered in 1963-64.)

154. SEMINAR IN MODERN SOCIAL THEORY. *Mr. Scaff*. The rise of modern sociology, with emphasis on the major contributions from Europe and America since 1900. Second Semester. M, 3:15 and arranged.

155. SEMINAR IN THE FAMILY. *Mr. Herman*. Comparison of family institutions in various cultures, with special attention to the changing American family system. Second Semester. TTh, 10.

165. AFRICAN SOCIAL STRUCTURE AND SOCIAL CHANGE. *Mr. Scaff*. Class, caste, ecological organization, and power structures involved in the development of Africa. Second Semester. TTh, 9.

TUTORIALS IN SOCIOLOGY

The following tutorial courses are primarily designed for students concentrating in Sociology, but they may be taken by any students who meet all of the following requirements: (1) Junior or Senior standing in the College. (2) Completion of two courses in Sociology, including Sociology 51 and one upper division course. (3) Permission of the instructor.

190. TUTORIALS IN SOCIOLOGY. *Staff*. Independent study, either semester, under the guidance of a staff member as follows:

- (A) PROBLEMS OF WORLD DEMOGRAPHY. *Mr. Scaff*. Population structure of the United States and other major areas of the world. Arranged.
- (B) INDUSTRIAL SOCIOLOGY. *Mr. Herman*. Social and cultural consequences of recent changes in industrial organization. Arranged.
- (C) SOCIAL STRUCTURE. *Mr. Scaff*. Dynamics of social classes, castes, bureaucracies and other social structures. Arranged.
- (D) PRIMARY GROUP INTERACTION. *Mr. Herman*. Theories and empirical studies of small groups within larger institutional contexts. Arranged.

(E) INSTITUTIONAL ANALYSIS. (Omitted.)

(F) GENERAL SOCIOLOGY. *Staff*. Special reading and research in connection with current staff research projects or other courses. Arranged.

194. SOCIAL ORGANIZATION OF A REGION. *Staff*. Offered only to students accepted for the Pomona Semester Abroad. Consult statement of the departmental program for detailed requirements.

AVAILABLE AT CLAREMONT MEN'S COLLEGE

H144. THE SOCIOLOGY OF RELIGION. *Mr. Meyners*. Second Semester. MWF, 11.

AVAILABLE AT SCRIPPS COLLEGE

III-121. SOCIAL WELFARE. *Mrs. Barrett*. (Same as Sociology 106 formerly at Pomona.) Second Semester. TTh, 1:15-2:30.

ANTHROPOLOGY

53. HUMAN AND CULTURAL EVOLUTION. *Mr. Leslie*. An introductory study of fossil men and of primitive cultures, with analysis of the evolutionary significance of the emergence of cultural traditions. First Semester. MWF, 11. (Omitted in 1962-63; offered in 1963-64.)

54. INTRODUCTION TO SOCIAL ANTHROPOLOGY. *Mr. Siverts*. An introduction to the analysis of social and cultural systems with emphasis upon the comparison of institutions in non-western societies. Second Semester. MWF, 1:15. (Fulfills anthropology prerequisite and distribution requirement.)

100. ANTHROPOLOGY OF LATIN AMERICA. *Mr. Siverts*. Archaeology of the ancient civilizations of Middle America and the Andean Region, and the ethnohistory and cultural anthropology of contemporary Indian and Mestizo communities. First Semester. MWF, 1:15.

101. ANTHROPOLOGY OF AFROASIA. *Mr. Siverts*. Linguistic and cultural areas of Africa and Asia, with descriptions of selected societies. Attention will be given to problems of comparison and structural analysis. Second Semester. MWF, 10.

104. INTRODUCTION TO LINGUISTIC ANTHROPOLOGY. *Mr. Siverts*. Introduction to descriptive and historical linguistics and to problems in the study of language and culture. First Semester. MWF, 11.

150. SEMINAR IN THE COMPARISON OF CULTURES. *Mr. Siverts*. Analysis of the scientific and literary modes of describing and comparing different ways of life. First Semester. MW, 3:15.

151. SEMINAR IN FOLK RELIGION. *Mr. Leslie*. The speculative thought of selected folk societies as it is expressed in religious ritual, myth and folklore. Second Semester. MW, 11. (Omitted in 1962-63; offered in 1963-64.)

TUTORIALS IN ANTHROPOLOGY

The following tutorial courses are primarily designed for students concentrating in Anthropology, but they may be taken by any students who meet all of the following requirements: (1) Junior or Senior standing in the College. (2) Completion of two courses in Anthropology, including Anthropology 53. (3) Permission of the instructor.

180. TUTORIALS IN ANTHROPOLOGY. *Mr. Siverts*. Independent study, either semester, in the following fields:

- (A) THEORY OF CULTURE. Study of the philosophical anthropology of writers such as Morgan, Radcliffe-Brown, Malinowski and Kroeber. Arranged.
- (B) SOCIAL ANTHROPOLOGY OF LATIN AMERICA. Analysis of recent research in community and regional structures. Arranged.
- (C) SOCIAL ANTHROPOLOGY OF AFROASIA. Analysis of recent research in community and regional structures. Arranged.
- (D) GENERAL ANTHROPOLOGY. Special reading and research in preparation for graduate work in anthropology. Arranged.

Zoology

Specialized equipment available for individual research projects includes: electron-, interference-, and phase-microscopes, various centrifuges including a high-speed refrigerated centrifuge and a continuous-flow centrifuge, isotope laboratory and counting room, constant temperature rooms, electrophoresis apparatus, spectrophotometer, and other specialized physiological apparatus, two animal rooms, and aquaria with circulating fresh and sea water. In addition, all teaching laboratories are well furnished with the finest in optical equipment.

Zoology Concentration: Requirements: Zoology 51a,b or equivalent plus six upper division courses selected from the Zoology listings. With the permission of the department chairman, secured at the time of filing applications for graduation, a student may substitute two upper division courses from one of the other natural science departments for two courses in Zoology. College courses strongly recommended: botany, chemistry, physics and three courses in foreign language. To obtain information concerning college preparation for a career in medical or an allied science, or advanced work in the various fields of zoology, consult the Zoology Department.

Zoology-Chemistry Concentration: See Chemistry.

1. ANIMAL BIOLOGY. *Mr. Ryerson*. An intensive study of biological principles as illustrated by selected examples drawn from the animal kingdom and including a discussion of biology and its human implications. For non-majors. Laboratory fee \$6.00. Second Semester. Lectures, MWF, 11; laboratory, W or Th, 1:15-4:05.

51a,b. GENERAL ZOOLOGY. *Mr. Amrein and Mr. MacMillen*. An introduction to modern zoology with special reference to physiology, development, genetics, evolution and phylogeny. Laboratory exercises include a study of selected animals and phenomena which best illustrate important zoological principles. Laboratory fee \$8.00 each semester. Lectures, MWF, 8; laboratory, M or T, 1:15-4:05.

110. MICROBIOLOGY. *Mr. Amrein*. An extensive discussion of microbiological principles, including microbial physiology, importance of microbial organisms in biological research, disease, and industry. Prerequisite: one year of biological work. Second Semester. TThS, 8.

111. MICROBIOLOGY LABORATORY. *Mr. Amrein*. Exercises in microbiological techniques, methods of culture, and diagnosis. Required of students preparing for medical technology. Prerequisite or concurrent: Zoology 110. Laboratory fee \$8.00. Second Semester. T and Th, 1:15-4:05 and two hours arranged. Limited to 24 students.

112. GENETICS. *Mr. Andrus*. General principles and modern developments in the study of heredity. Prerequisite: one year of biological work or permission of the instructor. First Semester. MWF, 9.

115. COMPARATIVE ANATOMY. *Mr. MacMillen*. A course embodying an analysis of the phylogenetic changes undergone by the principal vertebrate organ systems, with examples drawn from both fossil and recent forms; laboratory exercises include a comparative study of the structure of modern vertebrates. Prerequisite: Zoology 51a,b. Laboratory fee \$10.00. First Semester. Lectures, TTh, 9; laboratory, TTh, 1:15-4:05.

120. VERTEBRATE EMBRYOLOGY. *Mr. Andrus*. A study of development from fertilization through organogenesis with emphasis on the vertebrates. Prerequisite: Zoology 51a,b. Laboratory fee \$8.00. Second Semester. Lectures, MWF, 9; laboratory, F, 1:15-4:05.

122. CELLULAR PHYSIOLOGY. *Mr. Andrus*. A study of cellular dynamics including the interrelations between cells and their environments. Prerequisites: two courses in the biological sciences and at least concurrent organic chemistry. Enrollment by permission of the instructor. Laboratory fee \$8.00. First Semester. Lectures, WF, and sometimes M, 10; laboratory, W, 1:15-4:05 and one hour arranged.

125. MICROTECHNIQUE. *Mr. Ryerson*. Theory and practice of the preparation of biological materials for study with various methods of microscopy. Prerequisite: one year of biological work. Laboratory fee \$8.00. Half-course. First Semester. T, 1:15-4:05 and three hours arranged.

126. HISTOLOGY. *Mr. Ryerson*. Microscopic anatomy and fine structure of cells of representative animals. Prerequisite: one year of biological work. Laboratory fee \$6.00. First Semester. Lecture, TTh, 9, Th, 1:15; laboratory, Th, 2:15-4:05 and two hours arranged.

157. ANIMAL ECOLOGY. *Mr. MacMillen*. A study of environment, communities, populations, distribution, and evolution, with particular emphasis on physiological and behavioral adaptations of desert vertebrates. Enrollment limited to 20 students. Prerequisite: permission of instructor; Zoology 115 for students concentrating in Zoology. Laboratory fee \$8.00. Second Semester. Lectures, MWF, 11; laboratory, F, 1:15-4:05.

199. SELECTED TOPICS AND RESEARCH IN ZOOLOGY. *Staff*. Directed independent study in the various fields of zoology. Program open to selected students whose written project proposals have been approved by the Department. These proposals are due one week prior to preregistration. When laboratory work is involved, fee of \$10.00 per course. Course or half-course. Each Semester. May be repeated, but only two courses can be applied towards major. Arranged.

The following two courses are offered during the summer at the Kerckhoff Marine Laboratory, Corona del Mar. Students are expected to take both courses which together make an intensive field course in marine biology. Tuition for the two courses is \$125. Time to be announced. For prerequisites and further information contact the Chairman of the Zoology Department.

S130. MARINE INVERTEBRATES. A study of invertebrates residing in the sea: their phylogenetic relationship, their morphology, and their physiology. Laboratory devoted principally to Pacific Coast types.

S150. MARINE ECOLOGY. A study of marine invertebrates as they exist in the field. Discussion of the distribution of each species observed and the factors which may account for these distributional patterns.

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POMONA COLLEGE CAMPUS PLAN

(See map on opposite page)

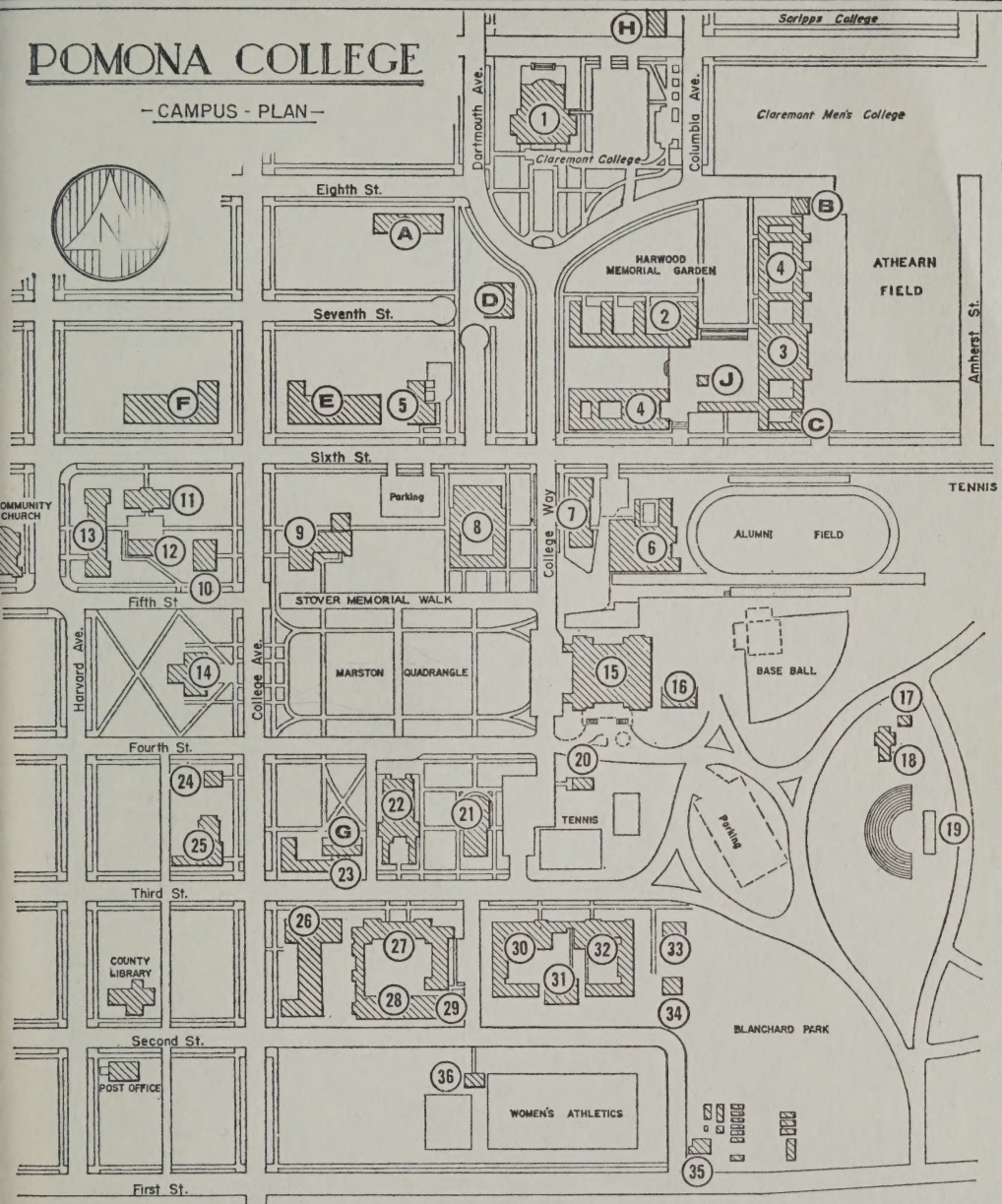
1. Honnold Library operated by Claremont University College for The Claremont Colleges.
2. Helen R. Walker Hall, residence for men.
3. Lucien H. Frary Hall, central dining hall for men.
4. Eli P. Clark Hall, residence for men.
5. Baxter Medical Building for The Claremont Colleges.
6. Memorial Gymnasium and Swimming Pool.
7. Smiley Hall, residence for men.
8. Edmunds Union, including student offices, cooperative store, ballroom, and lounges.
9. Holmes Hall, classrooms and assembly hall.
10. Pearsons Hall, classrooms and offices.
11. Crookshank Hall, departments of botany and psychology.
12. Harwood Hall, department of psychology.
13. Mason Hall, chemistry laboratories.
14. Carnegie Building, classrooms and offices.
15. Mabel Shaw Bridges Auditorium, seating 2600, operated by Claremont University College in behalf of The Claremont Colleges.
16. Renwick Gymnasium.
17. Astronomy Laboratory.
18. Frank P. Brackett Observatory.
19. Greek Theatre.
20. Replica of original home of Pomona College.
21. Sumner Hall, administration building.
22. Mabel Shaw Bridges Hall of Music, assembly hall for recitals and chapel services; music studios and practice rooms.
23. The Gladys Montgomery Art Center.
24. President's House.
25. Claremont Inn, guest house for college and community, private and public dining rooms.
26. Anna May Wig Hall, residence for women.
27. Harwood Court, residence hall for women.
28. Aurelia Squier Harwood Memorial Dining Hall for women.
29. Mary McLean Olney Dining Hall.
30. Della Mulock Mudd Hall, residence for women.
31. Jessie E. Gibson Dining Hall for women.
32. Florence Carrier Blaisdell Hall, residence for women.
33. Maison Française, residence for women.
34. Casa Hispánica, residence for women.
35. Heating Plant and Maintenance Shops for The Claremont Colleges.
36. Field House for women's athletics.

The Infirmary for The Claremont Colleges is located on Amherst Avenue north of Foothill Blvd.

Harvey Mudd College is located north of the map area.

POMONA COLLEGE

— CAMPUS - PLAN —



- A. Pendleton Business Building.
- B. Telephone Building for The Claremont Colleges.
- C. Edwin C. Norton Hall, residence for men.
- D. The Faculty House for The Claremont Colleges.

- E. Robert A. Millikan Laboratory — Departments of Astronomy, Mathematics and Physics.
- F. Seaver Laboratory — Departments of Geology and Zoology.
- G. Rembrandt Hall, art studios.
- H. McAlister Religious Center.
- J. Smith Memorial Tower.

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